

EST. 1901

THE ORIGINAL AND STILL THE BEST

The Woodworker

November 2015

www.getwoodworking.com

& Woodturner

Multi-functional dining

- Prepping timber by hand
- Stanley FatMax 18V kit
- Dovetail housing joint
- Back to basics bowl



FITS LIKE A GLOVE



OFFCUTS = KIT



BOXED-UP CLEVER

PLUS: EBONISING SECRETS ■ 4 TOOL & KIT TESTS

mytime media WOODWORKING GROUP



£4.25

woodworks

Carving, Craft, Pyrography and Toy Making all in one place
Supplying all your power carving needs - and more

Equipment



Rotary Burrs



Rotary Chisels



Pyrography Tips



Blades & Saws



A Family business, giving family service and family values

Order online at

www.woodworkscraftsupplies.co.uk

or phone on
01633 400847

Woodworks Craft Supplies, P.O.Box 102, Caldicot NP26 9AG

Welcome



We've all heard it, that announcement on the slowing train warning the unwary or novice traveller to 'mind the gap between the carriage and the platform'. A few years ago I started to amuse myself by inserting the words 'between your dreams and reality' every time I heard it, and still do occasionally. Sure, it's not easy to make your dreams come true, but we've got to give it a try or else what's the use? Set your sights high is what I say, and aim for the moon.

Applying this philosophy to my woodworking life as well, I've found that it's best to design exactly what you fancy, then worry about if it's actually achievable later. When faced with some newly acquired materials, try to avoid the 'what can I make with this?' way of thinking. Instead, why not see if you can come up with an idea first and then worry about how to make it later. It definitely helps if someone else like your customer/ intended recipient shows more than just a passing interest in your ideas, but don't worry too much about it if they don't; I guess it's unlikely you'll find many other people of exactly the same creative mind as yourself.

The reality gap

I've found that most things can be made as imagined, but sometimes the reality of the physical world can

stubbornly refuse to cooperate with one's enthusiastic and inspired visions. My latest furniture job has definitely fallen into that category; the concept and design were pretty keen, the drawings excellent and the customer's reception very encouraging indeed. The workshop build went nicely enough – a couple of small changes but that's to be expected, and I felt pretty confident as we pulled up in the van outside. Well, a couple of days into the installation and my plan for execution had started to look a little overambitious, to put it mildly.

A gap between my dream of a giant and elaborate wall unit and the reality of wonky walls, weighty boards and wobbly ladders had certainly started to open up, and I had to abandon my fiendishly clever and elegant plan for a more pragmatic approach. Fortunately – but not without some extra and unwanted work – we managed to get over the difficulties, but I wonder what I'll learn from the experience? Probably not as much as I should do, but if nothing else it's quite possible I'll question myself a bit more closely, and maybe next time I'll be able to keep the reality gap to an absolute minimum – or even make it disappear altogether...

Mark

You can contact Mark on mark.cass@mytimemedia.com



If you can't always find a copy of the magazine, help is at hand! Complete this form and hand it in at your local store, and they'll ensure that a copy of each issue is reserved for you. Some stores may even be able to arrange for it to be delivered to your home. Just ask!

Subject to availability

Please reserve/deliver my copy of *The Woodworker* on a regular basis, starting with issue _____

Title _____ First name _____

Surname _____

Address _____

Postcode _____

Telephone number _____

If you don't want to miss an issue



WOODWORK

14 Redefined multi-functional dining

Alina Bajescu discusses the processes for designing a family dining table and how she went about challenging the definition of functionality. This was certainly a learning curve for her, which goes to show the importance of prototypes

24 Checkmate!

Not happy with his grandson keeping his chess pieces in a plastic bag, Gordon Warr set about making a special inlaid box to house them, which uses a variety of light and dark contrasting woods

33 Offcuts part 2: stay sharp!

In part 2 of his series on using offcuts, Robin Gates finds ways for preserving his sharp edges and improving his sawing technique

37 Safe as houses

Andy Standing introduces us to the dovetail housing joint, which is ideal for use when constructing shelving units or cabinets. You also only need a few pieces of equipment in order to make it

44 Fits like a glove

The editor was commissioned to make a custom veneer laminated curved cabinet – he shares the trials and tribulations with us here

14 Redefined multi-functional dining

53 Illuminated reading

This lamp by Peter Benson is simple but the long pieces pose some handling challenges

56 Dark secrets

Stephen Simmons reveals the techniques that underlie the smooth surface of ebonised wood

66 Flat and square

Cheaper, quieter and very satisfying, too: preparing timber by hand needn't be slow or difficult, as Mike Riley shows us. Learn what tools you'll need for the job, how to check for wind and the secrets of using the shooting plane

24



66



82

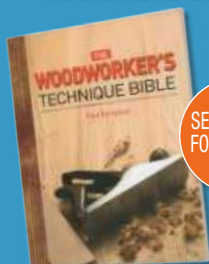
NEXT ISSUE

THE DECEMBER ISSUE IS
OUT ON 27 NOVEMBER



SUBSCRIBE & SAVE UP TO 38%

PLUS: RECEIVE A FREE
BOOK: THE WOODWORKER'S
TECHNIQUE BIBLE



SEE PAGE 64
FOR DETAILS

OFFER CLOSING 27 NOVEMBER 2015



TURNING

59 Back to basics bowl

Colin Simpson talks bowl gouge techniques, shows you how to turn a simple shallow bowl in wet walnut as well as teaching you some new skills

71 6: Theory into practice

Alan Holtham's turning series is coming together as he shows you how to make a small project – a two-piece table lamp, which requires just five turning tools

ON TEST

78 Axminster DS12DLMB2
300mm & **Axminster SS-12VS**
305mm disc sanders

81 Kreg K5 Pocket-Hole Jig

82 Stanley FatMax 18V drill
and impact driver

84 Trend Snappy SB3 & SB4
screwdriver sets

REGULARS

- 3 Welcome
- 9 News
- 11 News & Diary
- 13 News from D&M Tools
- 20 Readers' letters
- 64 Subscriptions
- 89 Marketplace
- 90 Archive



The Woodworker & Woodturner

November 2015

Published by **MyTime Media Ltd**
Enterprise House, Enterprise Way,
Edenbridge, Kent TN8 6HF

Tel: 0844 412 2262
From outside UK: +44 (0)1689 869840
www.getwoodworking.com

SUBSCRIPTIONS

UK – New, Renewals & Enquiries

Tel: 0844 243 9023

Email: help@tw.secureorder.co.uk

USA & CANADA – New, Renewals & Enquiries

Tel: (001)-866-647-9191

REST OF WORLD – New, Renewals & Enquiries

Tel: +44 1604 828 748

BACK ISSUES & BINDERS

Tel: 0844 848 8822

From outside UK: +44 1604 828 748

Email: help@tw.secureorder.co.uk

Website: www.myhobbystore.co.uk

EDITORIAL

Group Editor: Tegan Foley

Email: tegan.foley@mytimemedia.com

Editor: Mark Cass

Email: mark.cass@mytimemedia.com

PRODUCTION

Designer: Malcolm Parker

Retouching Manager: Brian Vickers

Advertising Production: Robin Gray

ADVERTISING

Business Development Manager: David Holden

Email: david.holden@mytimemedia.com

Tel: 01689 869867

Online Sales: David Holden

Email: david.holden@mytimemedia.com

Tel: 01689 869867

MARKETING & SUBSCRIPTIONS

Subscriptions Manager: Kate Hall

Subscriptions: Sarah Pradhan

Tel: +44(0)1858 438798

MANAGEMENT

Head of Design & Production: Julie Miller

Group Advertising Manager: Rhona Bolger

Email: rhona.bolger@mytimemedia.com

Tel: 01689 869891

Chief Executive: Owen Davies

Chairman: Peter Harkness

mytimemedia
print & digital media publishers

© MyTime Media Ltd. 2015

All rights reserved ISSN 1752-3524

The Publisher's written consent must be obtained before any part of this publication may be reproduced in any form whatsoever, including photocopies, and information retrieval systems. All reasonable care is taken in the preparation of the magazine contents, but the publishers cannot be held legally responsible for errors in the contents of this magazine or for any loss however arising from such errors, including loss resulting from negligence of our staff. Reliance placed upon the contents of this magazine is at reader's own risk.

The Woodworker & Woodturner, ISSN 1752-3524, is published monthly with an additional issue in summer by MYTIME MEDIA Ltd, Enterprise House, Enterprise Way, Edenbridge, Kent TN8 6HF, UK.

The US annual subscription price is 59GBP (equivalent to approximately 98USD). Airfreight and mailing in the USA by agent named Worldnet Shipping Inc., 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA.

Periodicals postage paid at Jamaica NY 11431.

US Postmaster: Send address changes to The Woodworker & Woodturner, Worldnet Shipping Inc., 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA

Subscription records are maintained at CDS GLOBAL Ltd, Tower House, Sovereign Park, Market Harborough, Leicestershire, LE16 9EF.

Air Business Ltd is acting as our mailing agent.



When you have finished with
this magazine please recycle it.

Paper supplied from wood grown in
forests managed in a sustainable way.



'THE' TOOL SUPERSTORE

HAND, POWER TOOLS & MACHINERY SPECIALIST

DM-TOOLS.CO.UK

YOUR TRUSTED PARTNER

D&M Tools has been family owned and managed since 1978. During that time we have earned a reputation with our customers as a trusted partner. Whether you are a trade professional or a DIY enthusiast, our mission is a simple one - **to supply top quality tools at the best value for money, backed up by a service you can trust.**

LOW TRADE PRICES!

Whether you're buying online, by phone, email, post or visiting us in-store, D&M provides you with the widest range of quality hand, power tools and woodworking machinery all at the keenest prices.

OVER 10,000 LINES IN STOCK!

We hold massive stocks, meaning that most items are available for despatch the day you order it. Our website shows up to date stock availability, so you can order with confidence.

FREE DELIVERY

Delivery to UK mainland addresses is free for most orders over £99 and for orders under £99 is only £5.95. See the carriage rates on our website for full details.



1 HR DELIVERY WINDOW

We use DPD Predict for the majority of our deliveries (except heavy or oversize items) so you will receive a 1 hour delivery window via email or text meaning you don't need to wait in all day.

SHOP ON-LINE 24HRS A DAY

Visit our easy-to-use website to see what we mean about range and value. Browse and buy with confidence 24hrs a day from the biggest brands in the business, all at prices you'll find hard to beat.

Here you will find all our **latest offers and deals.**

Why not **subscribe to our regular emails** to keep up with our latest deals and offers or join our **D&M Loyalty Scheme** and earn valuable loyalty points every time you shop.

More details on our website:
www.dm-tools.co.uk



MAKE A DATE IN YOUR DIARY...

MASSIVE CHOICE FROM THE BIGGEST BRANDS!



THE UK's No.1 BRANDED HAND, POWER TOOLS & MACHINERY EVENT



'THE' TOOL SHOW '16

WWW.THETOOLSHOW.COM

KEMPTON PARK RACECOURSE
7th-9th OCTOBER 2016

VISIT OUR EXTENSIVE TWICKENHAM SUPERSTORE
73-81 HEATH ROAD • TWICKENHAM • TW1 4AW
020 8892 3813 • SALES@DM-TOOLS.CO.UK



020 8892 3813
MON-SAT 8.30am-5.30pm
(CLOSED BANK HOLIDAYS)



FREE CATALOGUE
- OVER 650 COLOUR PAGES



OUR CUSTOMERS LOVE US!

We are regularly receiving 5 star reviews on the independent review site Trustpilot, as well as testimonials direct from our customers, here are just a few:

★★★★★

"D&M tools are very well priced, turn up on time and have superb telephone support just in case anything goes wrong. This is a business I will use in the years to come. Thanks for a job well done."

★★★★★

"Quick Quality Quantity and Value - D&M offer a fast efficient service which they couple with an excellent range of manufacturers tools which are always available in the numbers you need at a competitive price."

★★★★★

"Best customer service... Ever! - I believe the real test of a companies customer service is when they have to deal with problems. My delivery came quickly and well packaged. I had an issue with the tool after about a month of use. The guys in the phone quickly arranged for collection, repair of the tool and return with great communication throughout. Very pleased with the way they resolved my issue."

★★★★★

"Brilliant prices and brilliant service - I have now traded with D&M Tools twice now and both times have received impeccable service and also nothing is to much trouble for their staff to sort out."

★★★★★

"Excellent service makes a refreshing change - first time I have used this company, was quite amazed by the quality and speed of service and delivery, a fine example of what can be done with first class staff."

★★★★★

"Best place for tools online - I've bought a lot of gear from D&M Tools over the last few years and they always provide a first class service, plus they always seem to have everything I need at the time."

www.trustpilot.co.uk/review/www.dm-tools.co.uk

**VISIT OUR
 EXTENSIVE
 TWICKENHAM
 SUPERSTORE**



@DM_Tools



DandMTools



DMTools1



DON'T USE YOUR LUNGS AS A FILTER



CLASS

THE MINIMUM LEGAL REQUIREMENT

M Class extraction unit is the minimum standard when working with these listed materials:

- Brick • Masonry • Tile • Concrete • Woods
- Gravel • Plastic composites • Flint • Quartz
- Liquid materials containing sand



VC3211M

Available in 110v and 240v

447M

Available in 110v and 240v



Makita Dust Extraction
Scan the QR code or visit
www.makita.uk.com



Visit www.makita.uk.com
to register for your Makita
3 Year Warranty.
Terms and conditions apply.



Follow Makita UK

In brief...

MAXIMUM SUPPORT FOR FIVE DECADES!

Now in its fifth decade, the Triton TWX7 Workcentre has been radically redesigned and updated for a new generation of woodworkers and has moved away from an all-steel construction to the latest lightweight, but robust, extruded aluminium frame.

This versatile woodworking station is capable of supporting a 150kg load at the ideal working height of 900mm. A built-in mains isolated switch connector means power tools can be used with the knee-off stop button function. Sliding extensions support wide or long loads, and the frame has an ultra-low friction, textured surface.

Fast switch-out modules transform the TWX7 Workcentre between working modes. Modules are easy to fit, align perfectly with the frame, and can be fine-tuned for accuracy with simple-to-use levelling pins. Dual T-track rails run the length of the chassis for



attaching accessories for use in any mode. Simply slide two locking latches and the clamping table can be removed, or fold the supporting legs beneath the table and you can wheel the entire TWX7 Workcentre with the modules

attached. It even fits through a standard doorway so access on confined sites is no problem.

The reduction in weight and the addition of rugged transit wheels and an easy folding frame mean that the TWX7 is not just a tool for the enthusiast woodworker, but it is also a highly capable and mobile multi-purpose workshop tool for professional site use.

Available accessories include Router Module, Contractor Saw Module, Project Saw Module, Side Support and Outfeed Supports, Rugged Transit Kit and Protractor Assembly. The TWX7 now takes a giant leap forward in terms of materials, technology, operational safety and accurate, refined design. Available from www.toolstream.com and priced at £348.04.



THIS LATHE PACKS A PUNCH

Record Power's new DML320 cast-iron electronic variable-speed lathe packs a real punch, with a powerful 1hp motor, 305mm swing over the bed and an impressive 508mm between centres. The spindle thread is the popular M33 x 3.5 and the tailstock is No.2 Morse taper, with a wide range of accessories available to fit.

The solid cast-iron bed, tailstock and headstock offer superb stability and the high-quality electronic variable-speed function gives smooth and responsive speed change at the turn of a dial, with a highly accurate digital speed readout. This lathe is also capable of reverse turning. Priced at £499.99, it also comes with an industry-leading five-year guarantee. See www.recordpower.co.uk.

AMERICAN-MADE QUALITY

Available from Woodworkers Workshop – www.woodworkersworkshop.co.uk

– this high quality American-made router fence is designed to help woodworkers with all woodworking operations from roundovers, raised panel doors and precision edge jointing.

One of the most innovative features of the Woodpeckers Super Fence is its micro-adjustable offset capabilities, which goes way beyond simple shims normally found with router fences. With its offset capabilities you can set an offset of any amount up to 6mm. To make the offset even easier to use, the two fence halves automatically line up perfectly parallel when tightened down. It also has a dust collection port, variable throat capabilities to handle router bits up to 100mm in diameter and multiple T-Slots on every surface.

The Super Fence not only makes it easier to attach feather boards and sub-fences than any other router fence, it's also the first of its kind to allow for the exact position of feather boards, regardless of the thickness of the sub-fence. The fence is nearly 10mm tall and 125mm deep with heavier than usual wall thickness for optimum support of demanding router functions.

The Super Fence can attach directly to slots spaced 432mm apart from centre to centre and is priced at £229.95.



ORDER BY 8PM
GET IT NEXT DAY

IronmongeryDirect

MASTERS OF OUR TRADE

UK'S BIGGEST RANGE IN STOCK!

GET YOUR
FREE
CATALOGUE

0808 168 28 28 IronmongeryDirect.com

C3 31 STARTER SET

C3 31 Comfort COMBINATION MACHINE + STARTER-SET

- 4.0 HP (3.0 kW) motor
- Format sliding table 2000 mm
- 1100 mm outrigger table
- Precision mitre index system
- 1300 mm crosscut fence for outrigger table
- Planer fence tilts from 90° to 45°
- Surface planer table length 1400 mm
- Planing width 310 mm
- Remarkably user friendly
- Allows rapid retooling

6.718,05

5.390,00

Save up to 1.328,05 £ excl. VAT



Universal saw blade

Ø 315 mm, Z 48



Cutterhead set

Universal cutter head
(steel made)



AF 12 dust extraction extractor

with dust bag quick change system



In brief...

CIRCULAR SAW BLADES FOR ALL

IRWIN Tools has recently expanded its circular saw blade portfolio to include two new offerings: IRWIN Marples Woodworking Series and IRWIN WeldTec. The brand now has a complete assortment of blades suitable for every application and material.

IRWIN Marples Woodworking Series

This new category of stationary blades has been designed with woodworkers in mind and boast a longer life, flawless finish and ultimate precision thanks to brazed teeth and laser-cut design. The teeth on the Marples blades are made from hard-wearing carbide; this ensures they stay sharper for longer and allow for multiple resharping.

The blade is also coated with friction coating that provides a smoother cut, helps to reduce jamming and increases the blade's life span. The coating reduces friction and works effectively with wet or resinous timbers, or when cutting rough timber, softwood, chipboard or MDF. Non-heat conducting aluminium flakes within the coating also help to lower the temperature of the blade.

IRWIN Weldtec

This range has been designed with the general tradesman in mind with blades suitable for both corded and cordless handheld circular saws.



Weldtec technology includes a unique process of welding the carbide teeth rather than brazing, offering a superior finish, no matter what the material. The tooth bond is 30% stronger than standard carbide, which means they last 50% longer. The blade is ideal for cutting and ripping in all wood and makes easy work of nails that could otherwise cause the blade to break.

Prices start from £15 – to find out more, visit www.irwin.co.uk.

ANY OTHER BUSINESS

One of my favourite lessons to teach in college is the one about communication. There are many ways to get a point across and no single definitive 'right' way for everything. Like many things, you have to pick the most suitable method of communicating for whatever is the job in hand. Here in the magazine we're restricted to the written word, which still calls for careful and concise composition so as to get the correct meaning fully across.

So, the next time you find yourself wishing and hoping that we'd carry a certain article, why not email me? Not only will this be better than just muttering under your breath or sighing like a disappointed suitor at the end of a dance, but it will actually attract my attention and may well result in making your wish come true.

Fair shares for all

Don't forget though, knowledge is a two way street and imparting it to others is all part of the learning process. So, with this in mind, the next time you've successfully completed a challenging project, or elegantly solved a simple one, then why not tell us all about it? It's easy enough and I can promise you a (fairly) speedy reply on the old email. All of us woodworkers like to see how others go about things, and if there's a new technique involved or just a variation on an old one, well, that's exactly the sort of thing we all want to hear about. Don't forget, we're keen and waiting to hear from you, and, as they used to say on the old Robbie Vincent talk show on Radio London, 'take part now!'

DIARY

NOVEMBER

Axminster Skill Centre courses 2-3 & 19-20 Beginners'

woodturning

5 Introduction to Leigh jigs *

5 & 24 Pen making *

9 Kitchen/door jointing

10-11 Beginners' routing *

12 Fine-tuning hand planes

13 Sharpening

13 Sharpening Tormek hand tools *

19-20 Paul Gardner's woodcarving

23-24 Machining for restoration

24 Christmas decorations & gifts

25 & 26 Turned boxes (advanced)

26 Turning a pestle & mortar

28 Spindle moulding *

30-4 Make a Windsor chair

* Course held in Sittingbourne, Kent

Unit 10 Weycroft Avenue,
Axminster, Devon EX13 5PH
0800 975 1905

www.axminsterskillcentre.co.uk

Toolfair

5-6 Sandown Park Racecourse,
Portsmouth Road, Esher KT10 9AJ
01923 237 799; www.toolfair.info

North of England Woodworking & Power Tool Show

20-22 Hall 1, Great Yorkshire
Showground, Harrogate, North
Yorkshire HG2 8NZ
01474 536 535
www.skpromotions.co.uk

Two-day coppicing course

21-22 Ravenshill Woodland
Reserve, Lulsley, Worcester,
Knightwick, Worcester WR6 5QP
01684 574 865
www.malvern coppicing.co.uk

Hand Tool Day

28 The Threshing Barn, Welland
Road, Upton Upon Severn,
Worcestershire
WR8 0SN; 01684 594 683
www.woodworkersworkshop.co.uk

ORDER BY 8PM
GET IT NEXT DAY

IronmongeryDirect

MASTERS OF OUR TRADE

UK'S BIGGEST RANGE IN STOCK!

GET YOUR
FREE
CATALOGUE

0808 168 28 28 IronmongeryDirect.com



Woodworking & Furniture Making Courses

Learn to craft wood and make fine furniture on our long and short courses at purpose-built workshops in Worcestershire

Short Courses Include
French Polishing & Refinishing
Wood Machining
Dovetailing & Drawer Fitting
Veneering & Laminating
Routing
Sharpening
'Make a Box'
'Make a Table'
Beginners Course



Sam Carter
9 month student



Rick Howie
9 month student



Garry Rowberry
9 month student

Call us on **01684 591014**
or find us online for information on all the courses
www.peterseftonfurnitureschool.com

The Threshing Barn, Welland Road, Upton upon Severn, Worcestershire, WR8 0SN



Wood Workers Workshop



01684 594683

www.woodworkersworkshop.co.uk

The Threshing Barn, Welland Road,
Upton upon Severn, Worcestershire, WR8 0SN



THE VERY BEST WOODWORKING TOOLS

Sourced by woodworkers
for woodworkers

Quality tools from the finest
UK, US & Canadian manufacturers



John Davis Woodturning Centre

... a working woodturning centre run by Woodturners for Woodturners

not just a shop

RECORD POWER
ESTABLISHED 1909

Woodworking Machinery & Accessories

Record Power Day
27th November 2015
10.00 am - 4.00 pm

Record Power will be on hand to answer your questions and demonstrate products from our extensive range



Special show
deals will be
available in store
on the day and
28th & 29th Nov
during normal opening hours



The Old Stables, Chilbolton Down Farm, Stockbridge, Hampshire SO20 6BU

email: admin@johndaviswoodturning.com

Shop Open: Mon - Sat 10am - 5pm, Sun 10am - 2pm

www.johndaviswoodturning.com

Tel: 01264 811070

What's new from



'THE' TOOL SPECIALISTS • WWW.DM-TOOLS.CO.UK • 0208 892 3813

DML320 PROFESSIONAL CAST MIDI LATHE

MANUFACTURER: Record Power

D&M GUIDE PRICE: £499.99 (inc VAT)

The new Record Power DML320 lathe offers fantastic value for money, being compact and powerful yet with very generous capacities for a medium-sized lathe, giving woodturners the chance to own a high-quality variable-speed machine at an unbeatable price. The solid cast-iron bed, tailstock and headstock offer superb stability, even when turning items at the limits of the lathe's considerable capacities. At the heart of this machine is the high-quality electronic variable-speed function, giving smooth and responsive speed change at the turn of a dial, with a highly accurate digital speed readout. The three-pulley system ensures excellent torque across the full range of speeds and is powered by a high-quality and vibration-free motor. The DML320 is also capable of reverse turning, making it ideal for achieving a perfect finish when sanding.



M18 BP-402C 18V PLANER

MANUFACTURER: Milwaukee

D&M GUIDE PRICES: £359.95 (inc VAT) (2 × 4.0Ah batteries)
£189.95 (inc VAT) (bare unit)



The latest addition to Milwaukee's 18V range is the M18 BP-402C cordless planer, featuring Milwaukee's high performance four-pole motor, which delivers 14,000rpm to achieve optimum surface finish.

REDLINK™ overload protection and constant speed electronics in tool deliver best in class durability and performance and a REDLITHIUM-ION™ battery pack delivers up to two times more run time, up to 20% more power, up to two times more battery life and operates better down to -20°C than other Lithium-ion technologies.

Faster material removal is achieved with two double-edged carbide blades over a planing width of 82mm, combined with adjustable depth of cut from 0-2mm with 20 locking positions, which allows the user to accurately set the amount of material to be removed in one pass. Rebate depth is up to 10.7mm. The planer is available with two 4.0Ah batteries, charger and kitbox, or as a body only.

DWP352VS 1,010W 75MM BELT SANDER

MANUFACTURER: DeWALT

D&M GUIDE PRICE: £209.95 (inc VAT)



The new DeWALT DWP352VS 75 × 533mm belt sander offers variable-speed for heat sensitive sanding and superior finishing. The two-handle arrangement provides good balance and control – it can also be used single handedly. It's powerful 1,010W motor gives fast, efficient removal of material in a variety of applications. The integrated dust container provides efficient dust collection; the sander is also AirLock compatible. The top exit cordset keeps the cable away from the belt area, preventing interference with sanding operations. Supplied with a dust container – available in 240 and 110V varieties.

PLEASE CHECK OUR WEBSITE – WWW.DM-TOOLS.CO.UK – FOR THE LATEST PRICES AND DEALS

Redefined multi-functional dining

Alina Bajescu discusses the processes for designing a family dining table and how she went about challenging the definition of functionality

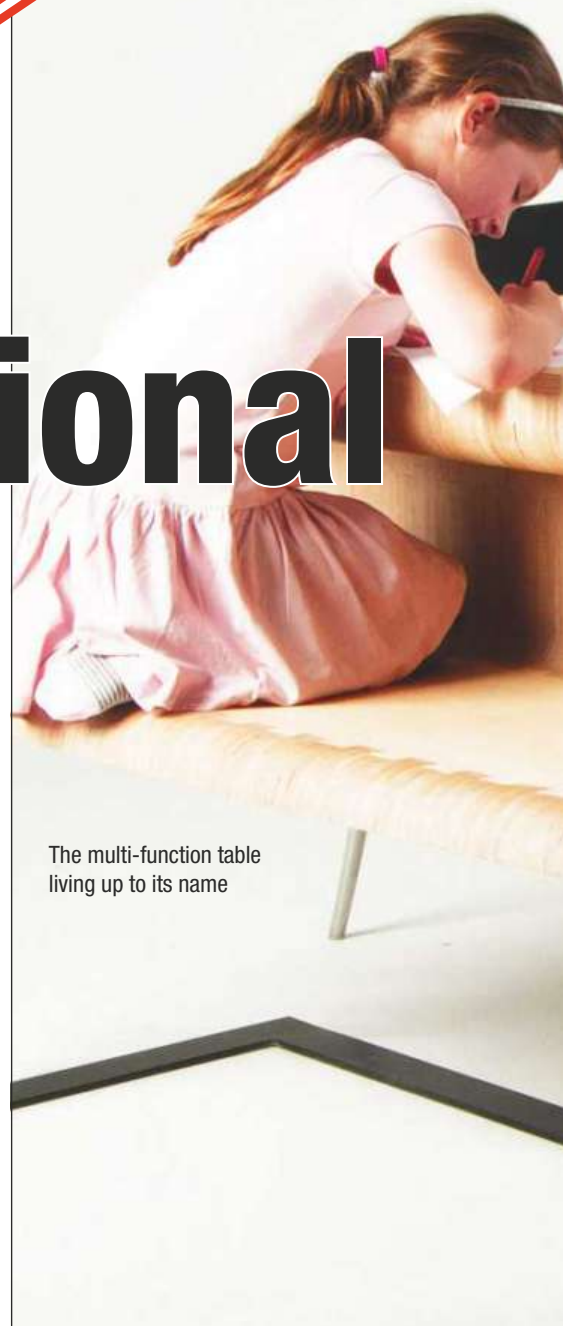
Research into multi-functionality led to the principle that a piece of furniture is only as functional as the user makes it. The design of a product is just an indication as to what it should do, but it is the user who gives meaning and value to features. Too many products claim to solve all problems yet struggle to fulfil at least one purpose, while single function products, such as a chair, can be re-purposed to complete multiple actions.

Challenging the definition of functionality, this dining table has limitless features, which allows the user to entirely determine the purpose according to their needs.

CNC machining

After concept generation and design refinement, a technical drawing with specifications was put together. With that, a CNC machine did all the cutting out. This process ensures exact cuts for complex shapes and repeated forms.

The fascination with plywood came as an early part of the project and the limitless possibilities of manipulating the material's properties and aesthetics. Also, the challenge of combining machine-operated production with classic woodworking techniques and hand-crafted skills was a large part of the concept.



The multi-function table living up to its name



A sheet of birch ply is quickly converted into multiple table parts



Here they are fresh from the CNC router



Cutting slots and grooving the underside of the table top



Fitting the stiffening ribs and side panels



Cleaning up and oiling the interior



Gluing up the drawers



GET INSPIRED



THE MOST ADVANCED KREG JIG® YET.

The Kreg Jig K5 combines the best features from every jig we've built before, with advanced, all-new features. Easy to set up and use, the K5 produces perfect pocket holes and creates tight joints in all types of wood.

Swivelling dust-collection port accepts standard 32mm vacuum hose

Storage wings provide built-in storage for bits, screws & accessories

Front-mounted clamp handle for easy clamping

Find your nearest stockist
kregtool.eu



Wood-Mizer®
from forest to final form



25TH ANNIVERSARY
LT40 SPECIAL OFFER

25% OFF

The LT40 electric, stationary sawmill with hydraulics

THE BIGGEST DISCOUNT EVER!

LT40

A 25 year legacy
of sawmilling
excellence

- 11kW electric
- Advanced PLC2 electronic Networks
- Standard hydraulic log handling
- Loading arms
- Claw turner
- Clamp
- Side supports

**Only 25 are available
at this price.
RESERVE YOURS TODAY!**

* Options and accessories are regular price.
Offer valid from 1 October until 31 December 2015.
Other offers are available for all other sawmill models.
Cannot be combined with any other offers.

Wood-Mizer UK
Hopfield Barn
Kenward Road, Yalding
Kent ME18 6JP
+44 1622 813 201
www.woodmizer.co.uk
info@woodmizer.co.uk



TURNERS TOOL BOX
DAVID MARTIN



CREATIVE WELSH WOODTURNING LTD.

Turners Tool Box.Com

WOODTURNING – WOODWORKING – WOODCARVING
TOOLS & ACCESSORIES

LOG ON TO:

www.turnerstoolbox.com



Woodturning Chucks including the:
Robert Sorby Patriot Woodturning Chuck
Axminster Evolution SK114 Woodturning Chuck
All with additional accessories making your time at the lathe a more pleasurable experience



New
Pen Mandrel Support



New

Bolt Action & Bullet Pen Kits
In a variety of different metal finish's
Including the required sized
Drill bits & the bushing sets



Extension Bars &
Morse Taper Adaptor

Colt MaxiCut® Forstner Bits:
Metric & Imperial Sizes



Colt HSS-M2 150mm Pen Drill Bits
Sizes from 7mm upwards



DELIVERED WORLD WIDE

For more information Visit: www.turnerstoolbox.com
Order online Open 24hrs – All at the click of a button and delivered straight to your door
Email: info@turnerstoolbox.com – Tel: 01873 831 589 – Mobile: 07931 405 131





Assembly can be a complicated business



The table takes shape as the central section of 'S' blocks is cramped up



It's a bit like a giant jigsaw, but when you're past the worst of it...



Detail of assembly



The bench end of the table is all glued up



Cleaning up the finger joints on the bench top

CNC machines are great tools; they minimise the possibility of human error in production and work very fast. All the parts could be cut in a matter of a few hours. The tricky part about machine cutting is that there are two possible outcomes: it either all fits in perfectly when put together, or not, in which case there is a lot of work that has to go into fixing the issues.

Hand work

The first problem encountered was that the drill bit had a 3mm radius. This isn't a problem when cutting outsides of shapes, but inner corners are rounded off. The finger joint holes on the table top had to be hand filed individually to create the perfect right angle, which was very time consuming.

Measuring the thickness of the ply should have been done before constructing the technical drawing, as this affected the fit.



Developing the curved panels; the one in the foreground was rejected



The final curved drawer fronts and the former they were pressed on



The first coat of Osmo oil goes on



One end of the table features three curved front drawers



The machined profiles create an elegant finger joint with the table top



One touch drawer opening



The business end, or desktop diner



Alina Bajescu and her multi-function table

The accuracy of the CNC leaves no room for error, and as 18mm plywood is never 18mm, but rather 17.5mm, varying from sheet to sheet, this caused a problem. To fix the error, an extra sheet of aerply had to be cut for each strip and then hand sanded down to get the exact size. The individual strips were then glued in place one at a time, to ensure a perfect fit.

Structural support

For structural support, there are two ribs on the bottom of the table that were slotted and glued into a groove on the underside of the table top. These not only act as the sides of the drawers, but keep the table top from warping throughout time. The end of these ribs continues inside of the curve to give it extra strength and prevents the joints from failing and the curve collapsing on itself.

Mimicking curves

The push release drawers were constructed from layers of aerply, formed over a mould in a heat press to create the same curvature as on the opposite side of the table. Details such as cutting a slot in the sides of the drawer to allow the runners to be covered by the front of the drawer are what give the piece character and consideration. The high-quality runner also adds to the value of the design.

The powder coated steel legs give the table a finished look and contrast with the wide wooden legs, as can be seen on the other side of the table.

This design brings plywood to a new level by paying homage to the detailed aesthetics of the end-grain and using that as a main feature of the table. The undefined features provide the possibility for adaptation to serve different purposes for the various users.

Long-term durability

Long-term durability is essential in this design, and being a prototype, issues can be identified through use and misuse, in order to further develop the concept and create a finished product. The first issue to arise with the prototype was that the steel legs were not strong enough. There was a little movement in them due to the weight of the whole table being supported on such a thin piece of steel. The shape should be reconsidered to avoid any long-term bending. Strength testing and time will determine if the whole piece holds up, without damage and warping; this will then give an indication as to what parts need to be reinforced or modified. www.getwoodworking.com



MADE STRONGER. LASTS LONGER.™

25%
STRONGER*

**IRWIN WELDTEC™
CONSTRUCTION BLADE
WITH WELDED
CARBIDE TEETH**

irwin.co.uk *When compared to IRWIN part number 1897209. Tested for durability on the most demanding applications.

**IRWIN®
TOOLS**

In your own write...

Here are just a few of the latest letters we've received since the last issue. Drop us a line on paper or via screen and keyboard to add your voice to the woodworking crowd; you might be one of the lucky few who will manage to get their hands on a coveted *Woodworker* badge!

SNAIL MAIL OR EMAIL?

You can write to us at *The Woodworker*, MyTime Media Ltd, Enterprise House, Enterprise Way, Edenbridge, Kent TN8 6HF or send an email to mark.cass@mytimemedia.com



Andy Standing talked about the spline dovetail in the Autumn issue

SPLINE DOVETAIL CONUNDRUM

Hi Mark,

I enjoyed Andy Standing's article on spline dovetails in the Autumn issue of *The Woodworker*, but he only shows photos of the jig in use when the box is disassembled. I can see that it is relatively straightforward to get two of the corners sorted before the box has to be put together, but when it is, well, how do you support it? Or do you rest the box down, and use the jig at 45°? I'd be grateful for clarification as the joint looks fantastic.

Roger Gray

Hi Roger,

Yes, I know what you're saying. You really need to be able to get your box into the vice, but I have to admit it's still a potentially tricky job. As well as providing a nice decorative touch, the splines are basically a reinforcement for a plain mitred corner joint, and can be executed after the box has been assembled and glued up. A lot of people use that Instant Box Mitre Fix glue (it's superglue plus an aerosol accelerant) to speed things up, otherwise you have to wait until the clamps come off.

I generally do my box splines by hand, but if you've got an important job or a whole batch of them to do, it's worth taking the time to fabricate some kind of router jig like the one Andy showed. I've always found that, because of its versatility, the router can be used for nearly everything you can think of, and even more besides! Thanks for your input, Roger – keep in touch

Mark

COLOURFUL STANDALONE BOOKSHELVES

Hi Mark,

I enjoyed the recent news feature on Nadia (Apprentice of the Year) – it's good to see young people achieving on merit.

I'm enjoying the magazine each month, and responding to your requests for projects – I attach a photo of the standalone bookcase I made last week, mostly out of scrap.

Rick Wheaton

Thanks for the bookshelves photo, Rick – they look great; I especially like the contrast coloured frame. Any chance you could tell us a bit more about it?

Mark



INTARSIA PLANS

Hi Mark.

First of all, I would like to say thanks for a splendid magazine – I can't wait to open it every time it arrives. In the recent Autumn issue there was an article on intarsia, showing a barn owl made by Tom Smith. Does he supply the full plans for this project and, if so, where could I purchase them?

David Dutton

Hi David,

I spoke to Tom about plans, but he doesn't have any of his designs for sale at the moment. As you might think, they take a lot of time and effort to design and produce, but he tells me he is thinking of publishing some as a book in the near future.

When you come to make your own, the most important thing about intarsia designs is to keep everything simple. If you take a good photo, it's possible to reduce it down to the important lines, and edit out everything else. You might find it easier if you try manipulating your image in a graphics editing program, such as Photoshop or similar, or just take a print of your photo and go over the most prominent parts with a felt-tip pen before tracing it. I say give it a go myself, and see how you get on! Cheers and good luck!

Mark

Here at *The Woodworker* we're always pleased to see photos of your work, and we know everyone else is as well! So send them in now and see if you can make the cut.

Engineered Precision



Plane & Simple

TPT 125

Offering the full 317mm cutting width, the TPT125 Planer / Thicknesser delivers 17,500 cuts per minute for a high quality, consistently smooth finish to the workpiece.

Large infeed and outfeed tables provide added material support for long workpieces and a capacity for timber from 3.2mm up to 152mm depth.

A circuit breaker ensures enhanced electrical safety and the dust chute, which can be mounted on either end of the thicknesser, provides a cleaner, safer, working environment.

Precise setting of the cutting depth is easy with the graduated depth crank handle and clear, easy-to-read thickness scale. The 4-post column design provides rigidity and allows the cutter head to be raised and lowered smoothly and accurately for precise results.



Clarke

4" BELT/
6" DISC
SANDER

CS4-6D

- Dust extraction facility
- 4" x 36" belt tilts & locks 0-90°
- 225mm x 160mm table, tilts 0-90°
- 370w, 230v motor

£84.99
£101.99 INC.VAT

Clarke

6" BELT/
9" DISC
SANDER

- Includes stand
- 1 Hp/ 230v/ 1ph motor

£209.99
£250.99 INC.VAT

CS6-9C

NEW

4" BELT/
8" DISC
SANDER

- Includes two tables • 550w 230v motor.

£139.99
£167.99 INC.VAT

CS4-8

Clarke

1" BELT & 5" DISC SANDER

- Inc. 2 tilt/lock tables and mitre gauge
- 300w motor

£64.99
£77.99 INC.VAT

CBS1-5

Clarke

DISC SANDER (305MM)

- Powerful, bench mounted disc sander • 900w
- No load disc speed: 1490rpm
- 305mm Disc Dia. (1 x 60 grit sanding disc included)
- Dimensions (LWH): 440x437 x386mm

£119.99
£143.99 INC.VAT

CDS300B

Clarke

QUALITY CAST IRON STOVES

OVER 20 GREAT STYLES IN STOCK

LARGE & XL MODELS IN STOCK

£89.99
£107.99 INC.VAT

11.8kW

POT BELLY

6.9kW

BARREL

6kW

£209.00
£250.00 INC.VAT

FLUES, COWLS & ACCESSORIES IN STOCK

£249.00
£298.00 INC.VAT

BUCKINGHAM

Clarke

ELECTRIC HEATERS

- Rugged fan heaters with tough steel cabinets
- Adjustable heat output with thermostat

FULL RANGE OF ELECTRIC MODELS IN STOCK FROM ONLY £27.99 INC.VAT

£39.99
£47.99 INC.VAT

DEVIL 6003

Clarke

BOLTLESS SHELVING BENCHES

- Simple fast assembly in minutes using only a hammer

£29.99
£35.99 INC.VAT

150 KG

(evenly distributed) Strong 9mm fibreboard shelves

PER SHELF

350 KG

(evenly distributed) Strong 12mm fibreboard shelves

PER SHELF

ALSO EXTRA WIDE INDUSTRIAL UNITS AVAILABLE

MODEL DIMS WxDxH(mm) EXC.VAT INC.VAT

150kg 800x300x1500 £29.98 £35.98

350kg 900x400x1800 £49.98 £59.98

Machine Mart

NOW 65 SUPERSTORES NATIONWIDE

WHERE QUALITY COSTS LESS

Clarke

RANDOM ORBITAL SANDER

CRO51

£29.99
£35.99 INC.VAT

• For sanding & polishing

• 125mm diameter sanding discs

• 4000-11000 opm

INC 5 DISCS

Clarke

ELECTRIC POWER FILE

CPF13

- Variable belt speed
- Tilting head

• Black & Decker

FROM ONLY £24.99
£53.99 INC.VAT

MODEL MOTOR EXC.VAT INC.VAT

CPF13 400W/230V £44.99 £53.99

KA900E 350W/230V £49.98 £59.98

SS = Stainless Steel

VAC KING

WET & DRY VACUUM CLEANERS

- Compact, high performance wet & dry vacuum cleaners for use around the home, workshop, garage etc.

FROM ONLY £47.99
£57.99 INC.VAT

MODEL MOTOR EXC.VAT INC.VAT

CVAC20P 1250W 16/12lit £47.99 £57.99

CVAC20SS 1400W 16/12lit £59.98 £71.98

CVAC25SS 1400W 19/17lit £64.99 £77.99

CVAC30SSR 1400W 24/21lit £86.99 £104.39

Clarke

SHEET SANDERS

CON300

FROM ONLY £13.99
£16.79 INC.VAT

*110V in stock

MODEL SHEET SIZE MOTOR EXC.VAT INC.VAT

CON200 190x90mm 150W £13.99 £16.79

CON300 230x115mm 330W £32.99 £39.59

Makita 112x102mm 200W £54.99 £65.99

BO455*

Clarke

ELECTRIC HEATERS

- Rugged fan heaters with tough steel cabinets
- Adjustable heat output with thermostat

FULL RANGE OF ELECTRIC MODELS IN STOCK FROM ONLY £27.99 INC.VAT

£39.99
£47.99 INC.VAT

DEVIL 6003

Clarke

BELT SANDERS

- Ideal for surface removal, sanding and finishing

ABRASIVE SANDING BELTS IN STOCK

FROM ONLY £29.99
£35.99 INC.VAT

MODEL WATT M/MIN EXC.VAT INC.VAT

Clarke BS1 900W 380 £29.98 £35.98

Clarke CBS2 1200W 480 £69.98 £83.98

Makita 9911 650W 75-270 £94.99 £113.99

Clarke

PLANERS & THICKENERS

CPT800

FROM ONLY £169.99
£203.99 INC.VAT

MODEL MOTOR MAX THICK. EXC. INC. CAPACITY VAT VAT

CPT600 1250W 120mm £169.98 £203.98

CPT800 1250W 120mm £199.98 £239.98

CPT1000 1500W 120mm £269.98 £323.98

Clarke

BANDSAWS

NEW RANGE

Top Quality Bandsaws - ideal for professional workshop use. Strong steel body with solid cast iron table featuring induction motors

- Table tilts 45° • Adjustable blade guide • Supplied with 4 TPI wood cutting blade, rip fence, mitre guide and push stick

FROM ONLY £349.98
£419.98 INC.VAT

MODEL THROAT MAX CUT MAX CUT EXC.VAT INC.VAT

CBS300 305mm/12" 165mm 115mm £349.98 £419.98

CBS350 340mm/14" 225mm 160mm £449.00 £538.80

ONLY £449.00
£538.80 INC.VAT

Clarke

STATIC PHASE CONVERTERS

PC60

- Run big 3 phase woodworking machines from 1 phase supply
- Variable output power to match HP of motor to be run

ROTARY PHASE CONVERTERS ALSO AVAILABLE

CONVERT 230V 1PH TO 400V 3PH

£274.80 INC.VAT

£322.80 INC.VAT

£382.80 INC.VAT

MODEL MAX. MOTOR HP FUSE EXC.VAT INC.VAT

PC20+ 2HP 10Amps £209.00 £250.80

PC40+ 3.5HP 20Amps £249.00 £298.80

PC60+ 5.5HP 32Amps £299.00 £358.80

Clarke

POWER PLANERS

BLACK & DECKER

FROM ONLY £23.99
£28.99 INC.VAT

• 82mm cutting width

MODEL INPUT DEPTH EXC.VAT INC.VAT POWER OF CUT

Clarke CEP1 650W 2mm £23.99 £28.79

Einhell RT-PL82 850W 3mm £49.98 £59.98

B&D KW750G - GB 750W 2mm £57.99 £69.99

Clarke

MULTI PURPOSE TABLE SAWS

EVOLUTION

255mm

FROM ONLY £149.99
£179.99 INC.VAT

MODEL MAX DEPTH CUT TABLE EXC. INC. SIZE (mm) VAT VAT

FURY5 54mm 73mm 625x444 £149.98 £179.98

RAGE5 55mm 79mm 688x444 £269.00 £322.80

*FURY power: 1500w (110V available)

*RAGE power: 1800w/230V (110V available) table extensions included

Clarke

CIRCULAR SAWS

- Great range of DIY and professional saws
- Ideal for bevel cutting (0-45°)

FROM ONLY £34.99
£41.99 INC.VAT

CON185

*Includes laser guide

MODEL MOTOR MAX CUT EXC.VAT INC.VAT (mm) EXC.VAT INC.VAT

CBS185B 1200W 65/44 £34.99 £41.99

CON185 1600W 60/40 £56.99 £68.39

CCS2 1300W 60/45 £59.98 £71.98

*Was £71.98 inc.VAT

Clarke

MULTI FUNCTION TOOL WITH ACCESSORY KIT

CMFT250

FROM ONLY £36.99
£44.99 INC.VAT

• Great for sawing, cutting, sanding, polishing, chiselling & much more

• 250w motor

• Variable speed

Clarke

OSCILLATING BOBBIN SANDER

COBS1

Provides exceptional finishes for deep & wide work pieces, front edges & narrow inner curves

• Dust collection port

• Inc. 5 sanding sleeves/ bobbins

• 330mm table height

ONLY £119.99
£143.99 INC.VAT

NEW

Clarke

TABLE SAWS

CTS100

CLK3 LEG STAND KIT FOR CTS100 - £29.99 INC.VAT
LEG STAND KIT FOR CTS111 - £27.59 INC.VAT

FROM ONLY £69.99
£83.98 INC.VAT

*Moulded base

MODEL MOTOR BLADE EXC.VAT INC.VAT

CTS800B 600w 200mm £69.98 £83.98

CTS111 1500w 254mm £139.98 £167.98

CTS10D 1500w 254mm £159.98 £191.98

Clarke

TABLE SAW WITH EXTENSION TABLES (250mm)

CTS14

- Ideal for cross cutting, ripping, angle and mitre cutting
- Easy release/locking mechanism for table extensions
- 0-45° tilting blade
- Cutting depth: 72mm at 90° / 65mm at 45°
- 230V/50Hz, Motor: 1800W
- Shown with optional leg kit CLK5 £22.99 exc.VAT £27.59 inc.VAT

£119.99
£143.99 INC.VAT

Clarke

STATIC PHASE CONVERTERS

PC60

- Run big 3 phase woodworking machines from 1 phase supply
- Variable output power to match HP of motor to be run

ROTARY PHASE CONVERTERS ALSO AVAILABLE

CONVERT 230V 1PH TO 400V 3PH

£274.80 INC.VAT

£322.80 INC.VAT

£382.80 INC.VAT

MODEL MAX. MOTOR HP FUSE EXC.VAT INC.VAT

PC20+ 2HP 10Amps £209.00 £250.80

PC40+ 3.5HP 20Amps £249.00 £298.80

PC60+ 5.5HP 32Amps £299.00 £358.80

Clarke

CIRCULAR SAWS

- Great range of DIY and professional saws
- Ideal for bevel cutting (0-45°)

FROM ONLY £34.99
£41.99 INC.VAT

CON185

*Includes laser guide

MODEL MOTOR MAX CUT EXC.VAT INC.VAT (mm) EXC.VAT INC.VAT

CBS185B 1200W 65/44 £34.99 £41.99

CON185 1600W 60/40 £56.99 £68.39

CCS2 1300W 60/45 £59.98 £71.98

*Was £71.98 inc.VAT

Clarke

MULTI FUNCTION TOOL WITH ACCESSORY KIT

CMFT250

- Great for sawing, cutting, sanding, polishing, chiselling & much more
- 250w motor
- Variable speed

Clarke
MORTISING MACHINE
CBM1B
• Accurately creates deep square
recesses • Table size 150 x 340mm
• Maximum chisel cap. 76mm • Robust
cast iron base & column ensures
stability & accuracy • 95mm depth
of cut

£149.98
EXC. VAT
£179.98
INC. VAT

"It is fast and accurate with a
good solid feel...Excellent value for
money, I'm really pleased with it."
See www.machinemart.co.uk

CHISELS AVAILABLE FROM
£6.99 EX VAT £8.39 INC VAT



INCLUDING
NEW

WOODWORKING MACHINES
visit machinemart.co.uk

FOR OVER
15,000
PRODUCTS

Xtra

NEW **500** **PAGE**
CATALOGUE
1100
PRICE CUTS &
NEW PRODUCTS



GET
YOUR
FREE
COPY
NOW!

• **IN-STORE**
• **ONLINE**
• **PHONE**

0844 880 1265

Clarke **WOODWORKING**
VICES

FROM ONLY
£13.49
EXC. VAT
£16.19
INC. VAT

Record **WV7**

MODEL	MOUNTING	JAW (WIDTH/OPENING (DEPTH)mm)	EXC. VAT	INC. VAT
Clarke CHT152	Bolted	150/152/61	£13.49	£16.19
Stanley Multi Angle	Clamped	72/60/40	£16.99	£20.39
Record V755	Clamped	75/50/32	£19.98	£23.98
Clarke WV7	Bolted	180/205/78	£24.99	£29.99

airmaster **TURBO AIR**
COMPRESSORS



• Superb range ideal for DIY, hobby & semi-professional use • V-Twin

MODEL	MOTOR	CFM	TANK	EXC. VAT	INC. VAT
Tiger 8/250	2HP	7.5	24ltr	£79.98	£96.98
Tiger 7/250	2HP	7	24ltr	£69.98	£84.98
Tiger 11/250	2.5HP	9.5	24ltr	£119.98	£143.98
Tiger 8/510	2HP	7.5	50ltr	£129.98	£155.98
Tiger 11/510	2.5HP	9.5	50ltr	£149.98	£179.98
Tiger 16/510	3HP	14.5	50ltr	£219.98	£263.98
Tiger 16/1010	3HP	14.5	100ltr	£269.98	£323.98

Clarke **Bosch** **Power Tools**
JIGSAWS

FROM ONLY
£12.99
EXC. VAT
£15.99
INC. VAT

*DIY #Professional
‡ was £59.98 inc. VAT

MODEL	POWER (W)	DEPTH OF CUT (WOOD/STEEL)	EXC. VAT	INC. VAT
Clarke CJS380	420W	55/6mm	£12.99	£15.99
Clarke CN750	750W	80/10mm	£24.99	£29.99
Bosch PST700E	500W	70/4mm	£44.99	£53.99
B & D KSTR8K-GB	600W	85/5mm	£66.99	£80.99



BISCUIT JOINTER
• 860W Motor
• 11000rpm Operating Speed
• 14mm Cutting Depth

FROM ONLY
£39.98
EXC. VAT
£47.98
INC. VAT

ACCESSORIES
IN STOCK

*DIY
MODEL MOTOR PLUNGE EXC. VAT INC. VAT

MODEL	MOTOR	PLUNGE (mm)	EXC. VAT	INC. VAT
CR1C	1200	0-50	£39.98	£47.98
Bosch	1400	0-55	£79.98	£95.98
POF1400ACE				

• 860W Motor
• 11000rpm Operating Speed
• 14mm Cutting Depth

FROM ONLY
£39.98
EXC. VAT
£47.98
INC. VAT

ACCESSORIES
IN STOCK

*DIY
MODEL MOTOR PLUNGE EXC. VAT INC. VAT

MODEL	MOTOR	PLUNGE (mm)	EXC. VAT	INC. VAT
CR1C	1200	0-50	£39.98	£47.98
Bosch	1400	0-55	£79.98	£95.98
POF1400ACE				

Clarke **10" SLIDING**
COMPOUND
MITRE SAW

• For fast, accurate cross, bevel & mitre cutting in most hard & soft woods
• 1800W motor
• Laser guide



FROM ONLY
£129.98
EXC. VAT
£155.98
INC. VAT

CMS10S2

Clarke **MITRE SAW**
STAND

• Suitable for most sizes/makes of saw
• Inc. outriggers & rollers

FROM ONLY
£64.99
EXC. VAT
£77.99
INC. VAT

NEW **FOLDING MITRE SAW**
STAND IN STOCK - COMING!
ONLY £119.98 INC VAT

Clarke **DOVETAIL JIG**

• Simple, easy to set up & use for producing a variety of joints • Cuts work pieces with a thickness of 8-32mm • Includes a 1/2" comb template guide & holes for bench mounting

PRICE CUT
£49.98
EXC. VAT
£59.98
INC. VAT
was £69.98 inc. VAT

CDTJ12
Router not included

Clarke **SCROLL SAWS**

• 120W, 230V motor • 50mm max cut thickness
• 400-1700rpm variable speed • Air-blower removes dust from cutting area

FROM ONLY
£69.98
EXC. VAT
£83.98
INC. VAT

CSS16V

Clarke **ROUTERS**

• 120W, 230V motor • 50mm max cut thickness
• 400-1700rpm variable speed • Air-blower removes dust from cutting area

FROM ONLY
£69.98
EXC. VAT
£83.98
INC. VAT

CSS16V

Clarke **ROUTERS**

• 120W, 230V motor • 50mm max cut thickness
• 400-1700rpm variable speed • Air-blower removes dust from cutting area

FROM ONLY
£69.98
EXC. VAT
£83.98
INC. VAT

CSS16V

Clarke **ROUTERS**

• 120W, 230V motor • 50mm max cut thickness
• 400-1700rpm variable speed • Air-blower removes dust from cutting area

FROM ONLY
£69.98
EXC. VAT
£83.98
INC. VAT

CSS16V

Clarke **ROUTERS**

• 120W, 230V motor • 50mm max cut thickness
• 400-1700rpm variable speed • Air-blower removes dust from cutting area

FROM ONLY
£69.98
EXC. VAT
£83.98
INC. VAT

CSS16V

Clarke **ROUTERS**

• 120W, 230V motor • 50mm max cut thickness
• 400-1700rpm variable speed • Air-blower removes dust from cutting area

FROM ONLY
£69.98
EXC. VAT
£83.98
INC. VAT

CSS16V

Clarke **ROUTERS**

• 120W, 230V motor • 50mm max cut thickness
• 400-1700rpm variable speed • Air-blower removes dust from cutting area

Clarke **MITRE SAWS**

• Quality Range of Mitre saws and blades available

FROM ONLY
£56.99
EXC. VAT
£68.39
INC. VAT

TH-SM 2534

• Quality Range of Mitre saws and blades available

MODEL **BLADE DIA** **MAX CUT** **EXC. VAT** **INC. VAT**

MODEL	BLADE DIA	MAX CUT	EXC. VAT	INC. VAT
Einhell TH-MS 2112	210/30	55/120mm	£56.99	£68.39
Fury 3	210/25.4	60/220mm	£119.98	£143.98
Einhell	250/30	75/340mm	£159.98	£191.98
TH-SM2534				
Makita	260/30	95/130mm	£199.98	£239.98
LS1040				

Clarke **ROTARY TOOL**
KIT

• Contains 15, 20, 25, 30 & 35mm bits • Titanium nitride coated for improved cutting finish

FROM ONLY
£29.98
EXC. VAT
£35.98
INC. VAT

CRT40

Kit includes:
• Height adjustable stand with clamp • Rotary tool
• 1m flexible drive • 40x accessories/consumables

Clarke **6" BENCH GRINDER**
WITH SANDING BELT

• For sanding/shaping wood, plastic & metal

FROM ONLY
£49.98
EXC. VAT
£59.98
INC. VAT

CBG6SB

• Supplied with coarse grinding wheel & sanding belt

Clarke **CR2 ROUTER**

• Powerful heavy duty machine ideal for trade use
• Variable speed control from 7,400-21,600 rpm
• 2100W motor • 0-60mm plunge depth

FROM ONLY
£109.98
EXC. VAT
£131.98
INC. VAT

CR2 ROUTER

• Powerful heavy duty machine ideal for trade use
• Variable speed control from 7,400-21,600 rpm
• 2100W motor • 0-60mm plunge depth

FROM ONLY
£109.98
EXC. VAT
£131.98
INC. VAT

CR2 ROUTER

• Powerful heavy duty machine ideal for trade use
• Variable speed control from 7,400-21,600 rpm
• 2100W motor • 0-60mm plunge depth

FROM ONLY
£109.98
EXC. VAT
£131.98
INC. VAT

CR2 ROUTER

• Powerful heavy duty machine ideal for trade use
• Variable speed control from 7,400-21,600 rpm
• 2100W motor • 0-60mm plunge depth

FROM ONLY
£109.98
EXC. VAT
£131.98
INC. VAT

CR2 ROUTER

• Powerful heavy duty machine ideal for trade use
• Variable speed control from 7,400-21,600 rpm
• 2100W motor • 0-60mm plunge depth

FROM ONLY
£109.98
EXC. VAT
£131.98
INC. VAT

CR2 ROUTER

• Powerful heavy duty machine ideal for trade use
• Variable speed control from 7,400-21,600 rpm
• 2100W motor • 0-60mm plunge depth

FROM ONLY
£109.98
EXC. VAT
£131.98
INC. VAT

CR2 ROUTER

• Powerful heavy duty machine ideal for trade use
• Variable speed control from 7,400-21,600 rpm
• 2100W motor • 0-60mm plunge depth

FROM ONLY
£109.98
EXC. VAT
£131.98
INC. VAT

CR2 ROUTER

• Powerful heavy duty machine ideal for trade use
• Variable speed control from 7,400-21,600 rpm
• 2100W motor • 0-60mm plunge depth

FROM ONLY
£109.98
EXC. VAT
£131.98
INC. VAT

Clarke **DUST EXTRACTOR/**
CHIP COLLECTORS

• Powerful 750W motor
• 56 litre bag capacity
• Flow rate of 850M3/h

FROM ONLY
£129.98
EXC. VAT
£155.98
INC. VAT

MODEL **MOTOR** **FLOW** **RATE** **BAG** **CAP.** **EXC. VAT** **INC. VAT**

MODEL	MOTOR	FLOW	RATE	BAG	CAP.	EXC. VAT	INC. VAT
CD35B	750W	850 M3/h	56Ltrs	£129.98	£155.98		
CD67B	750W	850 M3/h	114Ltrs	£149.98	£179.98		

Clarke **5PCE FORSTNER**
BIT SET

• Contains 15, 20, 25, 30 & 35mm bits • Titanium nitride coated for improved cutting finish

FROM ONLY
£9.98
EXC. VAT
£11.98
INC. VAT

CHT365

Clarke **BENCH GRINDERS**
& STANDS

• Stands come complete with bolt mountings and feet anchor holes

FROM ONLY
£29.98
EXC. VAT
£35.98
INC. VAT

STAND AVAILABLE FROM
ONLY £39.98 EX VAT
£47.98 INC. VAT

MODEL **DUTY** **WHEEL** **DIA.** **EXC. VAT** **INC. VAT**

MODEL	DUTY	WHEEL	DIA.	EXC. VAT	INC. VAT
CBG6RP	DIY	150mm	£29.98	£35.98	
CBG6RP	PRO	150mm	£39.98	£47.98	
CBG6RSC	HD	150mm	£49.98	£59.98	
CBG6SB	PRO	150mm	£49.98	£59.98	
CBG6RWC	HD	150mm	£54.99	£65.99	
CBG6W (web)	HD	150/200mm	£55.99	£67.19	

Clarke **DRILL PRESSES**

• Ideal for enthusiasts/hobbyists with small workshops
• 325mm distance between centres • 200mm max. turning capacity (dia) • 0.2HP motor

FROM ONLY
£134.99
EXC. VAT
£161.99
INC. VAT

CWL325V

Clarke **13" MINI**
WOOD LATHE

• Ideal for enthusiasts/hobbyists with small workshops
• 325mm distance between centres • 200mm max. turning capacity (dia) • 0.2HP motor

FROM ONLY
£134.99
EXC. VAT
£161.99
INC. VAT

CWL325V

Clarke **13" MINI**
WOOD LATHE

• Ideal for enthusiasts/hobbyists with small workshops
• 325mm distance between centres • 200mm max. turning capacity (dia) • 0.2HP motor

FROM ONLY
£134.99
EXC. VAT
£161.99
INC. VAT

CWL325V

Clarke **13" MINI**
WOOD LATHE

• Ideal for enthusiasts/hobbyists with small workshops
• 325mm distance between centres • 200mm max. turning capacity (dia) • 0.2HP motor

FROM ONLY
£134.99
EXC. VAT
£161.99
INC. VAT



BY GORDON WARR

Checkmate!

Not happy with his grandson keeping his chess pieces in a plastic bag, Gordon Warr sets about making a special inlaid box to house them

One of my grandsons recently had a set of chessmen given to him, it was only a basic set but nevertheless was worthy of something better to contain them than the plastic bag in which he received them. So he turned to grandpa, with a request for me to come up with something specially made for the purpose...

CHESS BOX CUTTING LIST

All dimensions are in millimetres

Part	Qty	L	W	T
Sides	2	215	56	9
Ends	2	135	61	9
Bottom	1	215	110	9
Top	1	215	110	9
Lower top	1	120	82	5

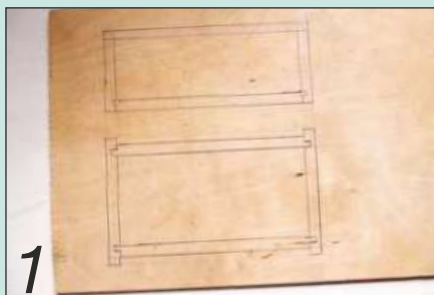
Widths and thicknesses are NET. An allowance has been added to the lengths.

Also required: small quantity of light and dark coloured woods for the inlay and baize for inside of box

Basic details

My first step was to set out on a piece of plywood, **photo 1**, the basic details of the box in the form of simple drawings, having first established just what the internal sizes had to be to ensure the box would fulfil its basic function of holding them all. I decided on a fairly unusual form of construction, which would give the appearance of the front and back looking like a panel in a frame, and the box would have a loose lid inlaid with a suitable logo.

For this box to be constructed as the drawings show, a router is really essential, and just as important, for this to be used in a router table. Although the construction is essentially simple, it demands precision working for a successful outcome. Good quality wood is needed, although you could use up oddments. I used walnut for the box, with a sycamore inlay, and a very dark rosewood. Ebony would have been better for the dark squares, but the rosewood shows a good contrast with the walnut.



1 Initial setting out on a piece of plywood



2 Cross-cutting to length – note that saw guard has been removed for clarity



3 Sides, ends and bottom ready for forming the joints



Precise cutting

As is usual, the project starts by preparing the wood to width and thickness, **photo 2**, but with a little excess on the length. Throughout this project total accuracy is essential, and this starts with sawing the sides, ends, and bottom to length. I completed this stage on my sawbench, fitted with a fine-toothed blade, also ensuring the pieces had dead square corners. Now it was on to the routing, for which I used a 4mm cutter for both parts of the joints, **photo 3**.

It is better for joints of the type I adopted to cut the grooves first, and it is also wise to make trial cuts first in oddments of suitable scrap. Both the depth of the grooves and their distance from the edges and ends must be exact, **photo 4**. Now it was on to forming the tongues, cut so as to form a comfortably tight fit in the



4

All tongues, grooves and trenches completed



5
Using a piece of MDF to support the wood as it passes the cutter



6
All joints are prepared on the router table



7

Final sanding is by hand



8

Trial assembly before gluing together



9

Box glued and cramped in the vice, removing excess glue with a small brush



10

Rubbing box over abrasive sheet to gain smooth and flat upper edges



11

Adding lower lid to the main component

grooves. As I was using the same 4mm cutter, two passes were needed.

Although I have a cross-cut fence for my router table, this is not ideal for small pieces of wood. There is a very simple alternative, and this is to use a small piece of MDF, around 150 × 150mm, **photo 5**, cut with all corners dead square, and use this to hold the wood as it is passed over the cutter. You need to ensure that the fit of the joints is comfortably tight, **photo 6**.

Cleaning up

Almost suddenly the main parts of the project were ready for some cleaning up prior to assembly. However, because of the rather unusual construction, not all parts needed the same degree of attention. The sides were sanded smooth on both sides as the outer surfaces cannot be attended to after gluing up; the ends were smoothed on the inner surfaces only, while the bottom was smoothed on its upper surface only. Even though I had planned to cover this in baize, the outer parts of this component would be seen on completion. This smoothing was carried out using my belt sander and hand sanding (**photo 7**).

Box assembly

The five parts so far prepared must all be assembled as a single stage, **photo 8**. First the sides and the bottom are glued, with the vice, **photo 9**, providing an effective way of ensuring the joints are tight, then the ends added. Again the vice is the best method of bringing these parts in tight contact with one another. Because of the nature of the

project, squareness and freedom from twist are automatically gained, but removing any excess glue is essential while still wet. For this I used a small brush and a little water, but drying the surfaces when the adhesive had been cleared.

Once the glue had set, a little levelling and smoothing of the outside were required. Again, I used a combination of power means and hand techniques. I would normally strongly advocate that sanding should be restricted to smoothing a surface, and not for levelling purposes. However, there are exceptions to most things, and this is one of them. In order to ensure that the upper edges of the sides and ends are level and smooth, I spread a large piece of abrasive, **photo 10**, onto the infeed table of my planing machine and then rubbed the box over this. It was easy to check the accuracy of the levelling by placing the box face down directly on the planer table.

Put a lid on in

The lid is in two parts. I prepared the upper component so that it was marginally longer and wider than the lower part of the box; this would enable it to be finally made level with this part. The under lid was carefully made an exact fit within the box, **photo 11**, with only a whisker of clearance so that it would not become wedged. I relied on very accurate measuring to align the two parts together, **photo 12**, gluing and cramping them in the vice along with G cramps.

Now the slight excess on the length and width needed to be trimmed. My aim was to make the lid a good fit and equally so when positioned either way round. This was achieved by carrying out the levelling with the lid first one way round, and then turning it though 180°. In fact, this part of the project was completed by reversing the lid several times and using a combination of power and hand sanding, **photo 13**, so that the fit was equally good whichever way it was positioned.

Preparing the inlay

Now it was on to preparing the inlay. I planed two lengths of sycamore and two lengths of rosewood to 10mm square, then glued them together side by side, **photo 14**. Next, I reduced the thickness of the assembled strip to around 6mm and cross-cut several pieces to a length of exactly 10mm, **photo 15**. Finally, four of these pieces were glued together to give a square but with the light and dark woods alternating to give the required checkered effect.

With the inlay positioned in the centre of the lid, it was marked round using a

12

The two parts of the lid being cramped in the vice



A little hand sanding always helps



The pieces for the inlay being cramped together



Sawing the lamination to give 10mm pieces



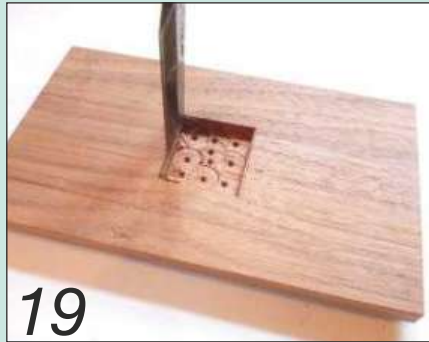
Four pieces being glued together and held in the vice



The inlay positioned in the centre of the lid and being scribed around



18 Most of the waste from the recess being removed on the drilling machine



19 The recess is completed using a chisel



20 The inlay glued in place and awaiting levelling



21 The inside of the bottom of the box is covered in baize



22 The completed box



fine-bladed knife. The recess for it was prepared to a depth of approximately 4mm. I initially removed most of the waste on my drilling machine using a Forstner bit; this gave a uniform depth and a level lower surface – the remainder of the waste was cut away by chisel and mallet.

Before gluing the inlay in place, I formed tiny chamfers around the four lower corners; these would allow for easier insertion. I used only a small amount of adhesive, **photo 20**. It's important for the inlay to be in close contact with the bottom of the recess and not be resting on a pool of wet glue. If too much glue is used, the inlay will not bed properly, and as the glue dries out it will shrink, and as this takes place it will draw the inlay further into the recess and thus cause a slight depression. This may not show until long after the project is completed. Remember that when inserting the inlay, it is important to have it correctly orientated, **photo 17** – the double black squares must be in the right-hand corner.

Levelling off

I allowed a full 24 hours before levelling off the projecting inlay, then thoroughly sanded all surfaces of the lid and indeed a final sanding to the whole of the box. I used satin pre catalysed lacquer for the finish, known simply as 'pre cat', and applied three coats to all surfaces, with a couple more to the top. I use a polisher's mop, to apply the lacquer and thinned this down with around 10% of cellulose thinners flattening down as the lacquer is applied.

The last coat is abraded with '0000' steel wool dipped in soft beeswax and finally burnished with a soft cloth.

Finishing touches

Just one stage remained, and that was to cover the lower surface of the box with self-adhesive baize, **photo 21**.

There is a technique to using baize for this purpose, which helps to avoid it sticking to everywhere except where intended. First, a piece must be cut to the exact size of the inside of the box, then the backing paper scored through at around mid length, and one half of the paper peeled off while holding the exposed end of the baize in one hand. The other end is positioned in the box, then the exposed end carefully lowered into position. Now the opposite end can be lifted, the paper peeled off, and this end lowered. My box was completed, **photo 22**, and my grandson was delighted that the original plastic bag which held the chessmen had been replaced with something more appropriate. www.getwoodworking.com



Quality • Innovation • Performance

Beyond all expectation



P1CC

Revolutionary Precision Jigsaw

- Includes tilting base & 0.8m rail
- FREE pack of blades worth £66.00



£499.95 Inc VAT

MT55CC

Precision Plunge Saw System With unique scoring function

- Includes 2 guide rails
- FREE blade worth £70.20

£639.95 Inc VAT



A10M

10.8v Cordless Drill

- Includes 90° angle attachment
- FREE Quick release chuck worth £24.20



£239.95 Inc VAT

For the perfect finish – **every time.**

The new ETS EC 150



You'll never work alone.

SERVICE
all-inclusive



Designed to meet the demands of a modern working environment.

The ETS EC 150 is perfectly balanced to tackle all fine sanding applications. Combined with perfect ergonomics the ETS EC 150 performs effortlessly. For performance at the highest level the unique vibration control system maintains the smooth performance but when required the sanding pad brake brings the ETS EC 150 to a halt quickly and effortlessly.

The brushless EC-TEC motor ensures reliable working. To experience the difference visit your dealer or www.festool.co.uk

FESTOOL

Tools for the toughest demands

www.festool.co.uk

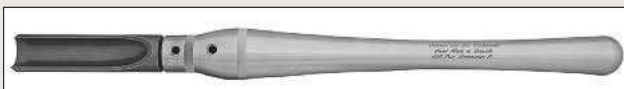
In brief...



KEEP YOUR WORKSHOP WARM

As the days become shorter, the nights become longer and those chilly days start to creep back, why not beat the cold with a Clarke woodburning stove from Machine Mart – perfect for your workshop. The range includes those manufactured from durable cast-iron as well as those which are more compact and efficient. Many have also been approved by DEFRA for burning wood in smokeless zones and feature precise screw adjustable air control.

Prices start from £298 – see www.machinemart.co.uk for more information.



TURNING PREMIUM

Available from The ToolPost is this fantastic range of M42 premium turning tools from Carter & Son Toolworks, which has recently been updated to include some brand-new skew chisels, parting tools and scrapers. These tools are renowned for their superior sharpness and edge-holding ability and feature aircraft grade aluminium handles for superb balance and feel, and in terms of durability, these tools have come to represent the epitome of woodturning tool excellence.

Carter & Sons Toolworks' products have proven themselves to be ideal companions for the serious woodturning enthusiast, offering superb holding of an edge that can be brought to a sharpness unrivalled in HSS tools, combined with innovative design, giving excellent handling and ease of use. These latest additions extend the versatility of the range further and ensure that Carter Tools will find a place on the toolrack of any turner who seeks the optimum in tool performance. Prices start from £79.20 – visit www.toolpost.co.uk to see the full range.

A TOOL FOR ALL REASONS

WOLF Tools' new 'Combat Tool' is a durable and competitively priced oscillating multi-tool, designed for DIYers and Professionals alike. Ideal for sawing, cutting, sanding, grout removal and scraping, it's perfect for trimming skirtings and laminate flooring, cutting inaccessible copper or plastic pipes, cutting square holes in plasterboard for recessing electrical boxes, cutting ceramic tiles and removing old grout. Fitted with a wood cutting blade it also makes easy work of fitting door locks, hinges and can even trim the bottom of a door while still mounted in the door frame!

The tool comes complete with a semi-circular wood cutting blade, delta sanding backing pad, 20 assorted grit size delta sanding sheets, 34, 20 and 10mm wood cutting end cutters, stainless steel stepped scraper blade and a diamond-tipped semi-circular cutting blade. Priced at £34.99 – see www.ukhs.tv.



HONED FOR ACTION

The new Veritas honing guide set includes both the standard and narrow blade clamping heads, as well as the angle registration jig, straight roller base and camber roller base. Combined, the heads



accept blades ranging from 3-73mm wide.

The bases offer the options of straight or slightly cambered edges on your blades. The completely predictable results this set offers for a wide variety of blades makes it one of the

most useful sharpening aids in the workshop of anyone who works with hand tools. Priced at £124.96 (valid until 31 December 2015), some of the parts can be purchased separately if you wish – see www.brimarc.com.

A SHINING LIGHT FOR TRADESMEN

New from Festool is the SYSLITE DUO working light, which features an angled LED configuration for all-round light in a 180° scattering angle and radiates evenly across large work spaces. The power of 8,000 lumen combined with 5,000 Kelvin helps replicate natural daylight and provides optimal illumination of space on construction sites. It features a TPE impact protection and a polycarbonate clear cover to prevent damage being caused by falls, dust and dirt and large cooling elements eliminate the hazard of fire or burning on the contact surfaces of the light. Transporting the light is made easy by a robust one-hand grip and integrated cord holder, as well as the option of using a systainer. Priced at £297.60 – see www.festool.co.uk.



ADD A NEW DIMENSION TO YOUR WORK WITH

Visit our
Online Store
Today!

(web address at bottom
of this advert)

metalcraft™

Easy to use tools that do
not require heat or power



Ideal wherever wood and steel can combine to make stylish...

- Furniture
- Clocks
- Signs
- Frames & Decorative Panels
- and so much more

Call today for our free Catalogue and if you quote the promo code "MTW15"
we will send you our new demo DVD free of charge

J & C R Wood Ltd, Dept MTW15, 66 Clough Road, HULL HU5 1SR
01482 345067 | info@jandcrwood.co.uk

www.metal-craft.co.uk



SPRAY-WAX

High quality oil-wax finish - especially developed for
professional users!

- > Extremely tough and hardwearing
- > Very water and dirt resistant
- > Suitable for children's toys (EN 71.3)
- > Microporous, breathable finish, which
does not crack, peel, flake or blister



Call or visit
website for
stockists.



+44 (0)1296 481 220
www.osmouk.com

osmo®

wood chisel and wood turning tool specialist

Ashley Iles - Henry Taylor - Robert Sorby

All items in stock, ready for dispatch..

*unless marked otherwise

all prices inclusive of VAT



Henry Taylor
'Diamic' brand
woodturning tools
have been
produced in
Sheffield by skilled
craftsmen, from the
finest steel for
more than one
hundred and fifty
years.

www.toolnut.co.uk

or call to order on 01424 224269



AFRICAN WOOD
5KG VARIETY BAG
ONLY £20

Tool Nut
cook

sharpening stones and tools



*** Amazing Tormek Deals ***

TROUSER BRACES (50 DESIGNS)

only
£10.00 each



pot lids
ONLY £3.30



BY ROBIN GATES

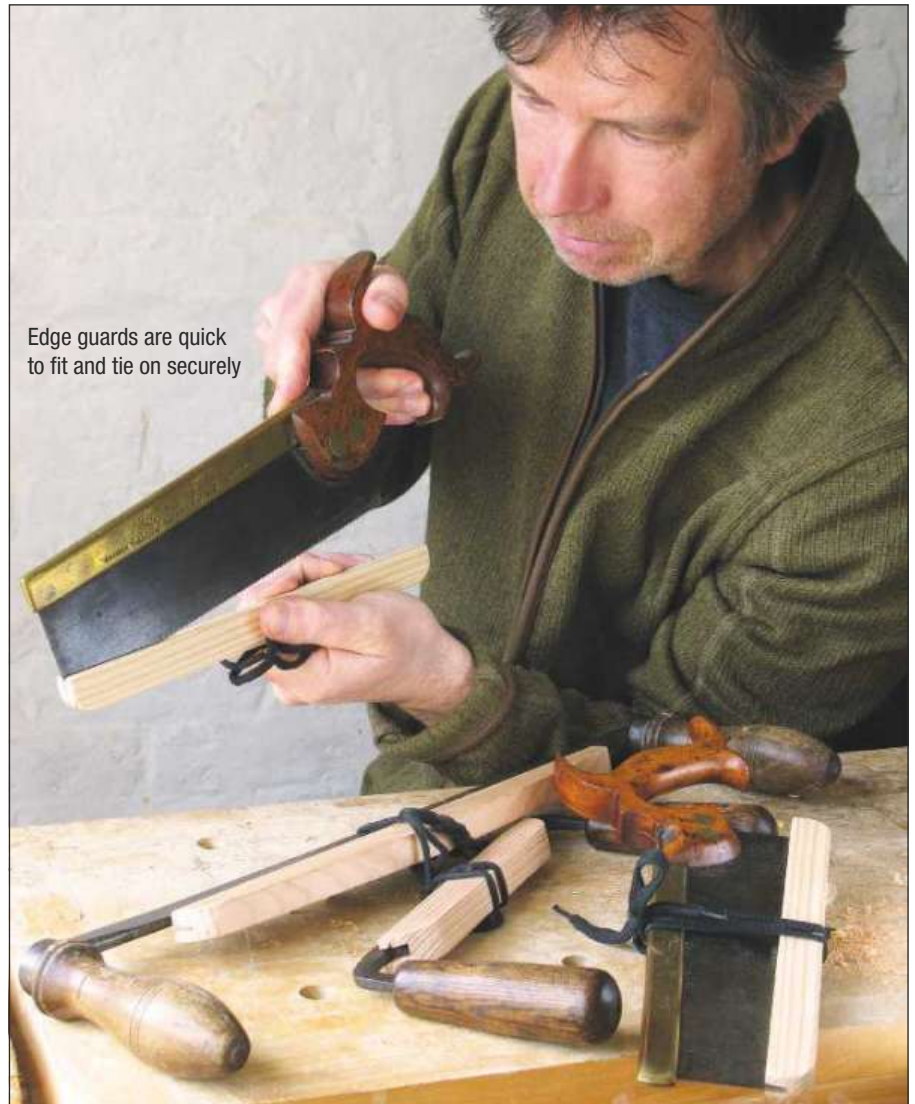
Part 2 Stay sharp!

Robin Gates finds ways for preserving his sharp edges and improving his sawing technique

Baffled by what to make with my growing pile of offcuts, I am encouraged by a scene from the film *Apollo 13*. With CO2 levels climbing to dangerous levels in the lunar module, the engineers on the ground are tasked with making a square filter fit a round hole using what looks like leftovers from the white elephant stall at a church fete. And the take-home message is this: it doesn't have to be pretty – it just has to work.

Edge guards

The tool well on my old bench saved many a small tool from free-fall to oblivion. It was also a convenient staging post for shavings in their journey to the bin. But here was a rare example of two pluses making a minus: the dusty depths of the tool well attracted sharp edges and while probing for the bradawl inside a fluffy mound of shavings,



I sliced my finger on a buried drawknife and decided there and then that my next project should be edge guards. An edge guard or keeper is simply a grooved slip of timber, **photo 1**, that fits snugly onto the blade, tied by a cord. It's especially useful for a drawknife whose twin handles make the tool unbalanced if picked up one-handed, so that I'm tempted to grasp the blade. It's not

just a matter of safety either. If unprotected, edge tools jostle together and soon blunt, so all that time spent on honing is wasted.

An edge guard is an ideal use for narrow offcuts. It doesn't matter exactly how thick they are so long as there's enough thickness to cut a slot with sturdy sides. I used some 20 × 11mm softwood ripped from the edge of some shelving.



1

Use a slip of wood slightly longer than the blade for an edge guard



2

Mark the centreline freehand using your fingers as the fence



3

The saw makes a slot for itself



4
Easing the corners of the slot with a chisel makes the guard easier to fit



5
Threading a shoe lace to act as the tie



6
Ploughing a slot for a drawknife blade using the Record 043



7
Edges are protected from blunting in the rough and tumble of the bench



8
One-piece side hooks are marked out in an elongated 'Z'



9
Cross-cutting the waste at regular intervals



10
Chipping away waste with a chisel. The cross-cuts act as stops



11
Levelling with an apron plane

12

Side hooks are used in pairs to support longer work while sawing



To make the guard for a tenon saw, the most important tool is the saw itself. Having run a pencil down the centreline, **photo 2**, I began sawing the slot at one end with the saw tipped up at about 20° from horizontal, **photo 3**, advancing the kerf along the line and to around 10mm in depth. This was repeated at the opposite end while gradually lowering the angle of the saw until the two kerfs met and became one.

I allowed an extra 6mm at each end of the guard to cut a radius with the coping saw, and used a chisel, **photo 4**, to chamfer the corners of the slot so the blade would slide into place more easily. Halfway along the length a 3mm hole accommodates the cord. Old shoelaces, **photo 5**, are ideal for this because their aglets prevent fraying – and you'll instinctively tie a bow. The drawknife can't cut a slot for its own edge guard but here was a good excuse to deploy the Record 043 plough plane, **photo 6**. The blades of old drawknives vary

a good deal so there's a degree of trial and error in making a snug-fitting guard. To prove the point, the edge of my 305mm drawknife was accommodated by a slot from the smallest cutter, at 3mm, while my 150mm drawknife required the 6mm cutter.

Bench hooks

Until recently the only bench hooks I made were based on the battered things I encountered in the school woodworking shop as a kid, but through delving into old books, I've come across a second and probably older type variously called the 'side rest' or 'side hook'. Side hooks are typically used in pairs, supporting longer pieces of timber for cross-cutting. While providing a firm stop to push against, they also lift the timber so you don't saw into the bench. Unlike the 'old school' bench hook, each of these is sawn from a single piece of timber but the net result is similar, giving two shoulders disposed on opposite sides of the base

– one to hook over the edge of the bench and the other to anchor the workpiece.

For this pair I used 305mm lengths of 70 × 41mm spruce, marking them with an elongated 'Z', **photo 8**. The shoulders reach 50mm from the ends and are 20mm deep, leaving about 20mm thickness for the base. The 'Z' configuration results in the shoulders being canted very slightly towards the base, which seems to improve their grip. With machinery you'll rip these hooks to shape in no time but it doesn't take long with hand tools either. If you cross-cut the waste at about 25mm intervals, **photo 9**, you can knock it out quickly with a chisel, **photo 10**. The cross-cuts work as stops, making the process more controlled. A modicum of levelling with the apron plane on the bases, **photo 11**, using a chisel to pare up to the shoulders, and they're done. So long as they're square and flat there's no point in fussing over the finish, **photo 12** – they're only offcuts after all. [www](http://www.getwoodworking.com)

Protect and enhance the natural beauty of wood with **Treatex Hardwax Oil**



Table designed and built by Jim Sharples Furniture

treatex
Naturally superior wood finishes



Treatex Hardwax Oil

protects and enhances the appearance of all types of internal wood surfaces including floors, stairs, doors, furniture and worktops. Treatex Hardwax Oil is manufactured on a base of natural sustainable raw materials: jojoba oil, linseed oil, sunflower oil, beeswax, candelilla wax and carnauba wax.

- Brings out the timber grain
- Adds warmth to wood
- Easy to apply
- Quick drying
- No sanding required between coats
- Low odour
- Resistant to spills of water, wine, beer, coffee, tea and fizzy drinks
- Withstands high temperatures
- Very durable
- Easy to clean and maintain
- Spot repairable
- Safe for use on children's toys

tel: 01844 260416
www.treatex.co.uk

The North of England Woodworking & Power Tool Show



THE LARGEST RETAIL
WOODWORKING & POWER TOOL
SHOW IN THE COUNTRY

Gt Yorkshire Showground Harrogate (HG2 8QZ)

20 November	2015	10am - 5pm
21 November	2015	10am - 5pm
22 November	2015	10am - 4pm

SK Promotions

www.skpromotions.co.uk • T: 01474 536535

Make life easy and pre-book your tickets.

Telephone **01749 813899** or write to SK Promotions,
The Old Sun, Crete Hall Road, Northfleet Kent, DA11 9AA

Name: _____

Address: _____

Post Code: _____

No of adult tickets ~~£10.00~~ @ £8.50

No of concession tickets ~~£9.00~~ @ £7.50

Cheque / P.O. to SK Promotions £ _____

PLEASE ENCLOSE A STAMPED ADDRESSED ENVELOPE.
For show details either visit www.skpromotions.co.uk
or phone 01474 536535.

Should you not wish to receive further information
on our woodworking shows please tick ☐

Cellulose Sanding
Sealer

Finishing Oil

Lemon Oil

Acrylic Gloss
Lacquer

Acrylic Sanding
Sealer

Safety Cloth

Spirit Stain

Acrylic Lacquer

Burnishing Cream

Cellulose Thinners

End Seal

Friction Polish

French Polish

Melamine Lacquer

Wood Wax 22

Steel Wool

Polishing Brushes

Shellac Sanding
Sealer



CHESTNUT

P R O D U C T S

first for finishes



Used by woodturners of all abilities throughout the UK and the world, the Chestnut Products range of top quality finishes gives outstanding results every time; whatever you are making and whatever your preferred finishing system there is bound to be something in our range to meet your needs.

See your local stockist for more information or for a catalogue/price list contact us at:

PO Box 536
Ipswich IP4 5WN

Tel: 01473 425878 Fax: 0800 066 4442

www.chestnutproducts.co.uk

mailroom@chestnutproducts.co.uk

Stockist enquiries welcome:

the WoodRat®

is not just here for the dovetailing



WoodRat's Mortise Rail MR4 clocks in the length and position of any number of mortises. Each pair exactly placed on opposing stiles – simple, accurate and very quick!

see it in action - www.woodrat.com



The Rocking Horse Shop

Make a Unique Traditional Rocking Horse, 17 Superb Designs



Plans, books, DVD's,
timber packs, accessories & fittings.

Carving Courses

Whether you are an experienced carver or have never carved before, you will benefit enormously from one of our courses.



www.rockinghorse.co.uk

Tel: 0800 7315418

Fangfoss, YORK YO41 5JH

**BY ANDY STANDING**

Safe as houses

Joint master Andy Standing introduces us to the dovetail housing joint, which is ideal for use when constructing shelving units or cabinets.

You also only need a few pieces of kit in order to make it

The housing joint is particularly useful when constructing shelving units or cabinets. It precisely locates shelves or partitions in position and is an easy joint to cut.

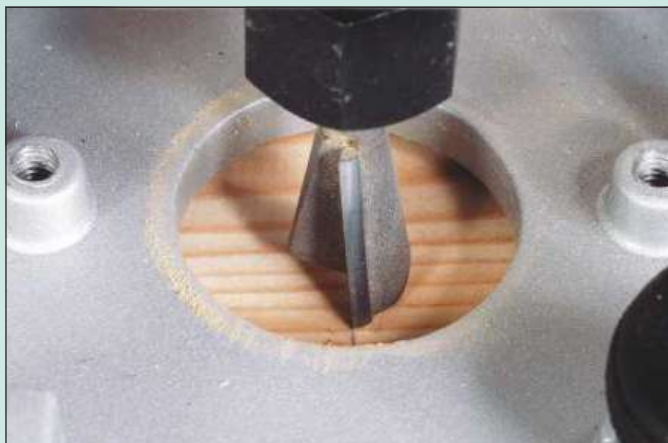
However, the one weakness it has is that should the carcass become stressed or distorted, for any reason, the joint can be pulled apart as it has no mechanical grip. So, for instance, should the uprights in a bookcase bow outwards, the shelves would fall out of their housings. One way to guard against this possibility is to use a dovetail housing instead. All you need is a good router, a dovetail cutter and, ideally, a router table. [www](http://www.getwoodworking.com)



1 Start by marking out the position of your joint on the side panel. Just use a single line to mark the centre of the joint



2 Unless you want the dovetail to show through on the front of the joint, you need to mark a point where the housing will stop. This should be 5-10mm from the edge



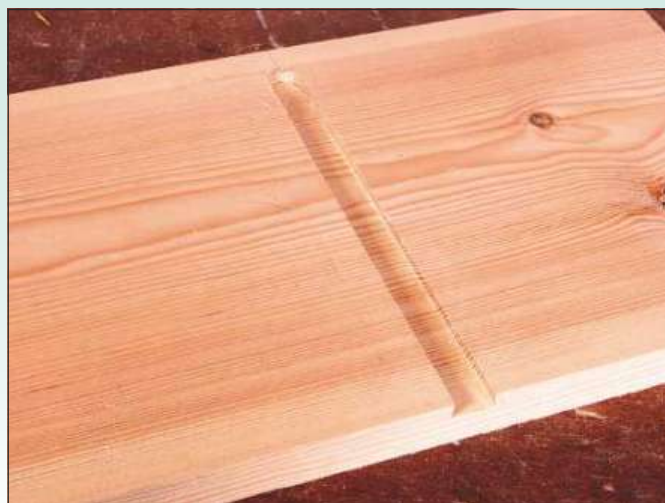
3 Fit your router with a dovetail cutter. The diameter should be reasonably close to the thickness of the shelf member. To centralise the router on the line, unplug it, stand it on the board and plunge the cutter down to touch the surface. Turn the cutter by hand and move the router until both the cutter faces are exactly on the line



4 Using a try square, align a batten with the side of the router and clamp it in place. For added security, you can put another on the other side to sandwich the router, although this is not entirely necessary



5 The housing does not need to be too deep and certainly not more than a third of the thickness of the side panel. Set the router to the required depth and place it on the edge of the workpiece. The joint must be cut with the cutter at full depth from start to finish. Plunge the cutter fully, start the router and move it smoothly into the work, keeping it hard against the batten. When you reach the end mark, stop the router and switch off. Do not release the plunge lock. Once the cutter has stopped spinning, pull the router back out of the cut



6 Your housing should look like this



7 Fit the router cutter into your router table. To set the depth, lie the machined board on the router table and raise the cutter until it just touches the bottom of the housing



8 Position the fence so that the cutter will take a shallow cut and run the shelf board vertically past it. Machine both sides



9 Check the fit, re-set the fence and take further shallow passes on each side of the shelf board until it is a sliding fit in the housing



10 Lie the shelf board on the side panel and mark the end of the housing on it



11 With the dovetail cutter set at the same height as before, move the fence back and take a series of cuts until you reach the marked line. Use the mitre fence to support the workpiece on the router table



12 The finished joint. It should be a tight fit and may need tapping home with a hammer and a woodblock

schepach
SPECIAL EDITION

2015 Happy

50%
OFF



Carry case & Rail bag
Only £22.50 Inc VAT

PL 55
Plunge Saw System
c/w 1.4m guide track
£189.99
INC VAT



HS 80
210mm Benchtop
Circular Saw
£99.99
INC VAT

HM81
216mm Sliding-
Mitre Saw (Cuts
305x65mm)
£149.99
INC VAT



HD2p
Extractor/Vac/
Inflator
£65.00
INC VAT



HG34
3" grinder-polisher
INC FREE TOOLKIT
£57.99
INC VAT



NEW



HS100S
250mm Sawbench
£149.99
INC VAT

NEW



HBS 20
Hobby Bandsaw
£109.99
INC VAT

NEW



BD7500
Belt & Disc Sander
£84.00
INC VAT

NMA
AGENCIES LTD

ORDER ONLINE OR
ALL PRICES CARRIAGE PAID UK MAINLAND

Hobby Days

schepach
SPECIAL EDITION



NEW

SD1600v
Variable speed
Scroll saw
£109.99
INC VAT



HA 1000
Dust Extractor
£119.99
INC VAT



NEW

HS105
SEMI-PRO
10" Table saw
£229.99
INC VAT



DMT 450
5 speed Benchtop
Midi Lathe
£264.99
INC VAT



BTS 800
4" x 6" HD Belt &
Disc Sander
£149.99
INC VAT



OSM 100
Oscillating Bobbin
Sander
£149.99
INC VAT



Tiger 2000s
Sharpening &
Honing Machine
£129.99
INC VAT



HMS 2000
8" x 5" Planer /
Thicknesser
£289.99
INC VAT



NEW

DP16SL
Pillar drill with
laser & vice
£179.99
INC VAT



CALL 01484 400488
- OFFERS END 31ST DECEMBER 2015

NMATOOLS.CO.UK
INFO@NMAUK.COM

SILVERLINE[®]

Keyhole Saw
991309



NEW

£5.05
Inc VAT

Surface Forming Plane Metal Body
103696



£9.64
Inc VAT

Silverstorm 900W Biscuit Joiner
128999



£55.99
Inc VAT

Biscuits 200pk
457012



£9.56
Inc VAT

OVER 5000 TOOLS

Precision Wood Carving Set 12pce
250241



£19.68
Inc VAT

Silverstorm 600W 1/4" Multipurpose Router
270289



£71.03
Inc VAT

Carpenters Pencils & Sharpener Set 13pce
250227



£4.51
Inc VAT

Work Supports 4pce
924568



NEW

£5.60
Inc VAT

silverlinetools.com

NEW CATALOGUE OUT NOW!

Prices correct at time of print. Images not to scale. Colours may vary.

makersmith
CREATE YOUR WORLD



Makersmith offers woodworkers quick and easy access to hi-tech manufacturing!

Makersmith are making it easy for hobby and business woodworkers to access CNC routing & laser cutting technology by providing manufacturing services backed up by full 3D design support using SolidWorks 3D CAD.

Sketches and ideas can be turned into real parts without the need for design or technical knowledge; makersmith will help develop and produce the finished design and then manufacture it. Makersmith provide in-house CNC router machining of timber, boards and plastics as well as laser cutting and engraving of wood, boards and plastics.

To complement this and to provide a 'one-stop-shop' service they also work with steel profiles & fabrications so that clients can easily create finished assemblies involving a range of decorative and structural materials. The services are available for one-off parts as well as batch production and can be used to produce anything from furniture to shopfitting and building components.

Makersmith staff have 35 years design, manufacturing & installation experience and the business has recently invested significantly in advanced manufacturing technology to enable people and business to make exactly what they need.

Gareth Davies, owner of makersmith says: "We understand that individual woodworkers as well as small & medium size businesses don't always have a clear route to access the latest design and manufacturing technology. We have the experience and capacity to support them and to be effectively an extension of their own workshop facility."

We are a creative business and our design capacity means that we can help clients with new solutions and new ideas as well as straightforward CNC processes. We are excited to be able to support woodworkers and the woodworking industry and are looking forward to providing this whole community with our services."

You can find out more about what makersmith can do for you at:
www.makersmith.works/wow
or by calling: **01723 336322**



DRAPER Tools

WOODWORKING

ASK FOR A COPY OF OUR CATALOGUE OR VIEW ONLINE:

drapertools.com/catalogue



315mm 740W 230V Two Wheel Bandsaw
Stock No. 76237

DRAPER Expert

200mm Heavy Duty Soft Grip Carpenter's Pincers
Stock No. 72172



OTHER SIZES AVAILABLE

DRAPER Expert

150mm Heavy Duty Soft Grip Dual Action Clamps
Stock No. 02373

DRAPER Expert

4 piece 150mm Soft Grip Bevel Edge Wood Chisel Set
Stock No. 89726



450W 230V 5 Speed Bench Drill
Stock No. 38256



drapertools.com



facebook.com/drapertools



twitter.com/drapertools



drapertools.com/drapertv



Available on the App Store



Available on Google play

In brief...

A GREAT WEEKEND OF TURNING

The ToolPost, located in Didcot, Oxfordshire, will open its doors this November (7–8) for its annual Open House event. Featuring an impressive array of UK woodturners, including Gerry Marlow (a very popular and versatile turner who always has new tricks up his sleeve) and Jason Breach (master of brilliant box-making), you can also enjoy displays of woodcarving from Simon Clements and pyrography from Bert Butterfield, plus the chance to chat to many of their suppliers. Enjoy the informal setting and the chance to get 'up close and personal' with these highly skilled and fascinating demonstrators.

As always, you can expect free parking, free entry, free demos and refreshments, as well as a number of 'deals of the day'. See www.toolpost.co.uk to find out more.



2015 ULTIMATE TRADESMAN ANNOUNCED

IRWIN Tools recently announced the winner of the 2015 National Tradesmen Day competition as Stacey Greenwell from Stoke-on-Trent, who impressed the expert judging panel with his dedication to the community. He was nominated for his commitment to rejuvenating what would be derelict areas of town, in order to provide homes and jobs for those in need. He was one of hundreds of nationwide nominations and beat five other finalists to be crowned the 2015 Ultimate Tradesman. As this year's winner, Stacey will drive home a brand new Ford F150 4x4 truck worth over £35,000. He commented: "I'm so thrilled to win the competition. It feels good to know the work I do is appreciated and this award is a testament to the great team of individuals I work alongside. I never win anything and I know my family will be really proud."

To keep up-to-date with news of National Tradesmen Day 2016, please visit www.irwin.co.uk.

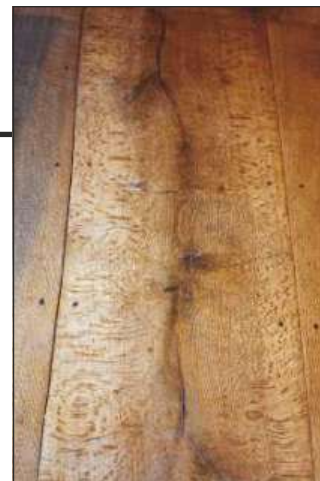


PAYING HOMAGE TO OAK

Jack Badger have been nominated for an International Product Design Award with their project 'Wide Oak Flooring'.

In this ever disposable world they have approached the subject of flooring with a focus on sustainability and efficient use of materials and have adopted age-old methods of making and fitting their floors.

The company lay their floors in traditional bays (sections) and finish them with hand tools, combined with the use of a modern computer-based planning system that works out the bays as you enter the timber used.



Every board in a Jack Badger floor is numbered and entered into an overarching room plan after being machined to its maximum size in the workshop. Due to this every board is completely different from the next, making them entirely non-standard. This requires a level of intelligence in the process, which is where the home-built computer tool comes into its own.

The company utilise the whole of every plank – in essence, paying homage to the life of the tree, which in the case of oak is a very long time. See www.jackbadger.co.uk.

A TRULY BESPOKE FINISH

Bespoke furniture designer NEJ Stevenson has been commissioned to create the furniture for the luxurious marketing suite at one of London's most exciting new developments, Lillie Square, with interior designer Hudson and Mercer, contractor Knight Harwood and architect XAB.

The marketing suite project by NEJ Stevenson will feature exquisite joinery in the Gallery area, with the carcass and doors to be made in dark stained oak veneer with a lacquer finish. This commission will also comprise a 14m seamless run of bespoke cabinets, panelling and jib doors, with a matching table, which will display a scale model of the development.

NEJ Stevenson specialises in custom-made furniture and bespoke architectural joinery. As cabinetmaker to The Queen



and Royal Warrant holder, the company has developed a reputation for crafting some of the finest contemporary and heritage furniture available. From individual pieces to entire room interiors, NEJ Stevenson's furniture can be found within luxurious private residences, historic buildings, places of worship and high-end retail spaces. See www.nejstevenson.co.uk.



BY MARK CASS

Fits like a glove

Mark Cass was commissioned to make a custom veneer laminated curved cabinet – he shares the trials and tribulations with us here

Some jobs seem to come ready formed; the type where all parties concerned have a similar and clear idea of what's required and it's just a case of saying 'go'. Most take a bit of discussion, a sketch and a meeting or two, but there are some that seem as though they'll never see the light of day. Such a job recently was this fitted unit, which eventually curved its way across a fireside alcove via a seemingly endless series of changes and revisions.

The big challenge with fitted furniture – as opposed to the free-standing stuff, which you just bring round to the customer's house, plonk down and give it a bit of a dust-off – is to not only make it fit, but to make it look like it fits. Yes, fairly obvious you might say, but generally trickier than it looks, what with the less-than-square nature of your average house and all the random angles that lie therein.

Survey

Accurate measurements sensibly recorded is the first step, followed by a photo or two as an absolute minimum. If possible you should try for a template of an irregular wall or a simple rod to record key dimensions; and, as with most things in life, never assume anything, but check it again... There is generally the odd detail which can be resolved on site, but I'd recommend the complete and thorough technique where every constructional detail is considered and planned at this early and vital stage.

Curved template

Once my own design was finalised, the next job was to make a template of the asymmetric curve, which would form the front face of the unit. Thin MDF is perfect for this, but try and use 6mm rather than 4mm, as it's a lot easier to run a bearing-guided router cutter along than the thinner stuff. Big curves can be tricky to set out, and you only know you've got it right when you can look along it and be pleased with what you see. Bending a thin strip of wood between two



1 Developing a curve; bend a lath and reach for the trammel heads



2 For a long and gradual curve, a steady hand is required on the bandsaw



3 A template follower cutter on a big router will form a professional curve



4 Using the front edge of the curved rail, the inner curve is marked out with a shop-made pencil gauge



The sloping top has a gradual taper and a gentle curve from left to right

pins or similar will sometimes suffice, but for a long curve you may not be satisfied; I know I wasn't. There was only one thing for it, I'd have to get the trammel heads, **photo 1**, out and a lengthy piece of timber. After a bit of trial and error, I was able to produce a satisfactory curve with a radius of a little over 3m. I cut this out on the bandsaw, **photo 2**, in preference to my jigsaw, and cleaned up the edge to a high degree, after all, this was to be the reference for the entire job and was therefore fairly high up in the importance stakes. Its first job was helping to make the carcass. Unlike some fitted cupboards, which consist of little more than

a frame fixed to a wall or two with a couple of doors and a top, this particular job needed to be made as one solid unit. I've found that anything with curved doors will always benefit from a fixed and rigid frame, especially if said doors are to be veneered...

Carcass

The carcass was a straightforward construction: two unmatched sides, a base, and front and back rails for the top. Both the front rail and the front of the base shared the same curve and had been cut oversize then trimmed back on my big router fitted with a template cutter, **photo 3**. If you take

care with your template and your routing, this will produce a clean and accurate profile every time, and one which needs very little cleaning up. Although the front of the top rail needed the curve, it could be argued that the inner edge did not. In my lifelong quest for art and beauty, I often find myself going to excessive lengths to make the unseen parts of a job look great, and so it was with the front rail – I had to curve the inside too.

The simple thing to do here was to run a pencil gauge, **photo 4**, set at a generous 100mm along the front and then just cut it out on the bandsaw. All of the carcass



The curved former is built up of sawn and routed ribs with double ply to finish it off



Laminating a curved door in the bag press: four layers of 4mm birch ply results in a nice door, and close to 18mm when veneered both sides



This bandsawn gum veneer is far from smooth and needs a pro glue like Titebond



A good quality masking tape will hold your veneers in place and ensure no movement during the pressing process



Out of the bag press, it's just a case of removing the tape as this particular veneer needs no cleaning up



The carcass gets the side panels fitted. Note holes in the side for the adjustable shelf

components were then biscuited together; the whole lot sanded and varnished before being glued and cramped up. I drilled both ends for adjustable shelf fittings; I've found this method to be the simplest and most effective way of providing storage flexibility on a job. So, that was the carcass mostly done – except for the top – and it could now be put aside while I prepared the doors.

Vacuum bag press

One of the best innovations of recent years has been the vacuum bag press, which is little more than a simple means of utilising

the natural atmospheric pressure of the air (approximately equal to a force of 10N), by evacuating a large rubberised plastic bag, which contains the work. In the case of curved laminations, multiple layers of ply are glued up and shaped around a stout former, the job being released from the bag and its pressure after the glue has set.

Like many formers, mine was to be made of MDF, **photo 5**, and there really can't be many better jobs for using up your scraps and offcuts. The trick is to get them all identical so that your former will be nice and uniform. Really the best way to do this is to

make up a custom jig and to shape the component parts on a spindle moulder. Sadly the Neon Saw workshops are not fully equipped with spindle tooling, so it was a job for the big router. By reducing the number of curved ribs by half and skinning them over with a couple of pieces of ply, I reckoned I'd have a halfway decent former.

Veneers and pressing

I went for four layers of 4mm birch ply, **photo 6**, for my doors; with the veneers front and back they would come out close to 18mm, a suitable thickness for most jobs of this size. Whenever large areas and adhesives are involved, there's always the likelihood that things will slide around a bit, so it's advisable to make things oversize and then trim your panels down to the exact size once the glue is set. The best glue to use for laminating work is Cascamite as it sets hard, unlike PVA, which remains soft(ish) and can allow curved work to deform over time.

Due to a slight oversight in the veneer department, the customer's chosen veneer wasn't available on the day, so I went ahead and pressed up the doors without it. This wasn't such a bad thing as if anything had gone wrong then at least I hadn't wasted the veneer as well. A good job too as it was a bit of a scarcity – bandsawn gumtree, **photo 7**. As well as enhancing the visual interest of the veneer, the saw cuts add a textural quality. Before any gluing can take place, though, the veneer needs to be laid up or prepared. This is where you get the chance to present the work in whichever way pleases you – always a satisfying task. This job was made easier by having my veneer supplier trim the leaves on his guillotine; if you've ever tried to cut dry veneer with a Stanley knife and a straightedge, you'll know just how tricky it can be. Once I'd made my selection of leaves and choice of layout, I tightly taped the pieces together with a good quality masking tape, **photo 8**, being sure to rub down firmly with a custom burnisher.

So, it was back into the bag press for the final time, **photo 9**. I decided to go for Titebond glue for this final pressing stage; it's a superior adhesive product and, as the surface area of the veneer was markedly reduced with the irregularities of the bandsawn veneer, I felt it would improve the chances of a solid job. With an attractive front and back the doors were starting to look like something, especially after I gave them a careful trimming on the table saw and cleaned up three of the edges with a sharp plane.

Swinging doors

I decided to go for a half decent piano hinge instead of regular butts or the Soss type of hinge, but I did need to make up a couple of side frame panels, **photo 10**, to complete the curved front and to provide a matching edge for the doors to hinge onto. I veneered these up – clamped between heavy Gs – then biscuited them onto each side of the carcass, **photo 13**. After checking that the doors would swing OK, I put them to one side so that I could give them a final fit on site.

With all the basics covered, I now had to turn my attention to the top of the unit. The customer wanted this to slope from back to front so as to prevent clutter building up and generally keep things tidy. Not such a problem you might think, but, what with the curve and the asymmetry of the unit, it wasn't quite as straightforward as would be preferred. Once I'd put a number to the slope in terms of degrees (15), it was just a case of cutting out four or five triangles, **photo 11**, (or firing pieces if you think in flat roof terms), which diminished in size to accommodate the gradual taper from one side to the other.

Site installation

With a workable plan in hand, it was off to site for the actual installation of the cabinet. This can be a slightly nerve-racking business, especially the first hour or two when you see if you've got everything the right size. Fortunately I'd had the sense – for once – of making a template, but it was still a relief to see the carcass sit snugly into its alcove destination where it rested happily on the skirting boards (the off-the-floor look is currently very popular in my part of the world). Fixing a four-sided carcass to the wall is obviously necessary for a fitted furniture job, but be careful as it's very easy to slightly distort it without realising – to the detriment of the door fit.

With the unit secured in place, my triangles were fixed to the top rails, front and back, and short lengths of batten fixed to the wall between each one, **photo 12**. There now began probably the trickiest part of the job – laminating the top. The plan was to glue and pin three successive layers of 4mm ply to the triangular ribs as well as the wall battens and the front rail. With each one I would be able to get a better fit to the walls, with the top layer – already pressed and veneered – the best of all.

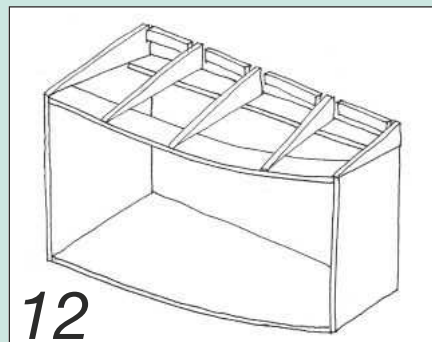
I kept the pins to a minimum on the top layer, resorting instead to masking tape and heavy weights to hold things down so as to keep it all blemish-free. The edge was



11
Cutting the triangle to achieve the sloping top. Repeat cuts are made with the template and board held in place with a sacrificial batten

13

The exposed side and front edge of the curve were veneered in situ with PVA and a hot iron



12
My sketch of how the top was formed on site. Note wall battens between the ribs



14
One of the press-to-open catches chosen to retain the simplicity and clean lines of the finished unit. The textural quality of the sawn veneer is clear to behold



15
The finished job seems to have attracted universal admiration

cleaned up with a sharp block plane and prepared for site veneering, along with the wide side of the carcass. This bit of the job couldn't have been veneered first as the triangle top supports had yet to be fitted and I didn't want an ugly visible join. While it's possible to use a contact adhesive for this sort of thing, I went for the PVA method.

This involves coating both surfaces with white glue, letting them dry, then passing a moderately hot iron, over the outer layer once they're in position. A certain amount of movement is possible here, but the glue doesn't take long to go off, so, as ever, just watch out and be prepared.

With the top and side finished, all that remained was to re-hang the doors and to give them a bit of a tweak-up. The catches were the press-to-release type, **photo 14**, and fitted very nicely to the underside of the curved front rail, while helping to retain the clean lines. A variety of finishes had been considered, but in the end we went for a sealing coat of Osmo oil (nice and pale and hardly changes the colour of the timber) followed by Liberon's Black Bison wax (neutral colour). It was a long time coming, but we all decided that it was well worth the wait, **photo 15**. www.getwoodworking.com

FURTHER INFORMATION

Osmo oil

- Osmo UK
- 01296 481 220
- www.osmouk.com

Liberon Black Bison wax

- Liberon
- 01797 367 555
- www.liberon.co.uk

LIMITED TIME ONLY* MASSIVE STOCK EVERYTHING MUST GO – GET THESE



- › WORLD WAR HEROES REMEMBERED
- › FIGHTER COMMAND'S ONLY VICTORIA CROSS
- › PUBLISHED 2015

NOW £2.99 (RRP £4.99)



- › HISTORICAL TRAVEL GUIDE
- › WHERE TO STAY & WHAT TO SEE
- › SWORD & JUNO BEACHES
- › PUBLISHED 2014

NOW £2.99 (RRP £6.99)



- › THE NTET MOVEMENT
- › ROAD LOCOMOTIVES
- › STEAM ROLLERS, CARS & LORRIES
- › PUBLISHED 2014

NOW £2.99 (RRP £6.99)



- › RAILWAYS ON THE HOME FRONT
- › WORLD WAR II LOCOMOTIVES
- › STANDARD & NARROWGAUGE
- › PUBLISHED 2014

NOW £2.99 (RRP £6.99)



- › HISTORICAL POSTCARDS
- › DAZZLE SHIPS & COASTAL BOATS
- › WARSHIPS MODEL BUILDS
- › PUBLISHED 2014

NOW £2.99 (RRP £6.99)



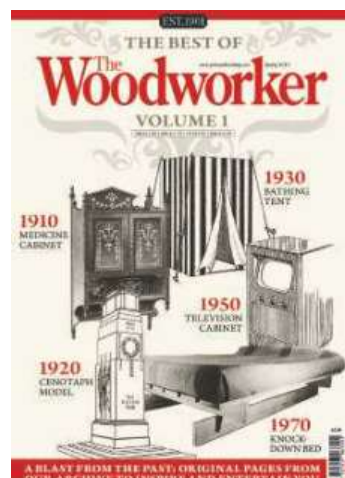
- › REAL-LIFE LOCOMOTIVES IN DETAIL
- › LOCOMOTIVE HISTORIES
- › MODELLING PROJECTS
- › PUBLISHED 2013

NOW £2.99 (RRP £9.99)



- › FIGHTER PILOT PROFILES
- › WWI & WWII GREATEST PILOTS
- › AIRCRAFT SPECIFICATIONS
- › PUBLISHED 2011

NOW £0.99 (RRP £6.99)



- › FURNITURE AND CABINET MAKING
- › VINTAGE PROJECTS
- › DECADE-RELATED FEATURES
- › PUBLISHED 2010

NOW £0.99 (RRP £6.99)

Online: www.myhobbystore.co.uk/CLEARANCE15*

CLEARANCE!

ORDER
NOW FOR
XMAS!

GREAT READS WHILE STOCKS LAST!



- > CROCHET STARTERS GUIDE
- > CUTE, CROCHETED CHARACTERS
- > PERFECT GIFTS FOR EVERYONE
- > PUBLISHED 2015

NOW £2.99 (RRP £4.99)



- > GETTING STARTED & GREAT TIPS
- > KIT GUIDES & EXERCISES
- > HORSEBACK HOLIDAYS
- > PUBLISHED 2014

NOW £2.99 (RRP £7.99)



- > ZEN COLOURING-IN PATTERNS
- > RELAX, UNWIND & DE-STRESS

- > HELPS EMOTIONAL WELL-BEING
- > PUBLISHED 2015

NOW £2.99 (RRP £4.99)



- > FUN PURSES & CLUTCHES
- > TOTES, SHOPPERS & HANDBAGS
- > FREE TEMPLATES
- > PUBLISHED 2014

NOW £2.99 (RRP £6.99)



- > GET THE BEST GARMENT SHAPES
- > FABRIC SWATCH & COLOUR GUIDE
- > FREE TEMPLATES
- > PUBLISHED 2014

NOW £2.99 (RRP £6.99)



- > PROJECTS FROM: LYNETTE ANDERSON, STUART HILLARD, KIM DIEHL, JANET BOLTON & MORE...
- > PUBLISHED 2014

NOW £2.99 (RRP £6.99)



TERMS & CONDITIONS

* Please do not enter or call regarding any competition or special offers published in these titles. All offers are now invalid. Postage varies on copies bought. Subject to availability. 50% offer valid for bookazines in this range only. Limited time offer – stock clearance available until 29th January 2016. One order per person.

Limited stock so don't miss out! Everything must go!

50% off orders over £8* (T&C's apply)

The Christmas Collection

Visit: www.realdealsforyou.com

Follow us on: [@Real_Deals4You](https://twitter.com/Real_Deals4You)

YouTube

REAL DEALS FOR YOU

Multi-MAXX Multi-Function Tool - Includes 10 Accessories

XMS15MTMAX

- Slim body for extra user control
- Supplied with 1 x plunge cut saw blade for wood and 1 x scraper
- Triangle sanding disc
- 6 x triangular sanding sheets
- 1 x metal saw blade
- 2 year guarantee

£49.99

RRP £89.99

AS SEEN ON TV

Save **£40**

Einhell
WELL DONE

Stealth Hammer with Free Bear Claw Bar

XMS15HAMMER

- Oversized striking head
- Magnetic nail starter
- Curved claw and side nail puller
- Bear claw double-ended nail bar included

£19.99

RRP £39.99

HALF PRICE

VAUGHAN



LESS THAN HALF PRICE

WHY NOT BUY 2

Quick-Grip 30cm/12" XP One-Handed Clamp

XMS15XPGRIP

- Up to 250kg clamping pressure
- Non-marking pads
- Clamping capacity 300mm (12")
- Spreading capacity 570mm (22")
- Supplied with heavy-duty holster

£14.99

RRP £30.99

13 Piece 4X Flat Bit Set with Wall Hanger

XMS15FLATBIT

- Sizes: 8,10,12,13,14,16,17,18, 20, 22, 25, 30 and 32mm
- Cut four times faster than standard Irwin flat bits
- Handy wall hanger

£14.99

RRP £49.99

Save **£35**

IRWIN TOOLS

Save **£15**

FORGEFIX
THE SIMPLY SOLUTION

1500 Piece Screw Assortment in Organiser

XMS15FORGE

- Professional multi-purpose Pozzi headed screws
- Popular single threaded screws for greater holding in a variety of materials
- Durable professional organiser
- Five No.2 Pozzi screwdriver bits included

£19.99

RRP £34.99

In brief...



COMMUNITY CENTRE TRANSFORMATION

Travis Perkins plc 'Pace' management team and local tradespeople collaborated with charity Northampton Community Spaces to refurbish one of their Community Centres, Standen's Barn, into a warm, welcoming and safe place for groups to meet and socialise together – and the entire project was completed in only 48 hours.

The 14 volunteers concentrated on the redecoration tasks, including the painting of all communal areas. The kitchen, featured in solid oak, was provided by Wickes and the refit was carried out by local tradespeople, including local kitchen fitters and electricians.

The charity, Northampton Community Spaces, which runs and manages eight community centres in total, is very popular and host around 77 groups, seven days a week. Standen's Barn welcomes members of the local community from all walks of life, from tiny-tots to the elderly, and hosts a variety of events and activities across the week.

FURNITURE UP NORTH

Furniture maker Nick James recently took part in the Northern Design Festival in Newcastle, where he showed his new range of furniture. This event was established in 2005 to showcase good design and support designers across the Northern region. 2015 marked the event's 10th birthday and over the last decade they have welcomed over 250,000 visitors to their festivals, worked with in excess of 1,400 designers, delivered 25 talks, 15 workshops, and held over 120 exhibitions and events.

To find out more about the event, see www.design-event.co.uk and to view more of Nick's work, see his website: www.jamesdesign.co.uk.



BEETLE INSPIRES LUXURY CABINET

Bertram Whitford has just unveiled his latest piece, the 'Lyctus' cabinet, which was inspired by discovering lyctus beetle tracks in boards of London plane he had stored. The holes it left were riddled in the sapwood of every board, which was frustrating as he'd planned to use the wane edge of these boards in the construction of a speculative cabinet. However, turning these to his advantage, Bertram decided to highlight the path of the beetle by planing the timber down to reveal the horizontal pathways through the sapwood. These were then filled with liquid copper paint (not before thoroughly treating the timber against further infestation), to complement the copper rod supports.

"I enjoy using, designing and making tambours. In construction they are multiple lengths of wood attached together on the back by a piece of flexible material, in this case calico. A rebate at each end allows the component to slide freely round curves within grooved tracks in the cabinet sides," he explains. Here, ash was used as a substrate and aspen veneer was applied on the face side of the tambour, with the calico being glued to the back, acting as a balancing veneer.

Another feature incorporated into the design was for the tambour to be partly visible as it travelled up and away. This was achieved by lifting the 'hat' of the piece up on the copper supports, a feature replicated at the bottom of the carcass for continuity and also lightness of appearance.

The veneering was done in a vacuum press. The hat and shelves were constructed with flexi-MDF, which is ribbed MDF sufficiently malleable to take the shape of a forma when pressure is applied. The shelves are made from two 6mm pieces of flexi-MDF and then veneered top and bottom with aspen veneer, and finally also lipped with the aspen.

The rails that the shelves tenon through had angled mortises cut into them, which was achieved by making an angled jig for the rails to sit on while being cut.

Finally, the copper pull had to be created to allow for smooth operation of the tambour. Handles can make a disproportional difference to the overall feel of a piece, for better or worse, and careful consideration in this case was also required. In the end, using the timber as a guide and keeping it simple won favour. Blessed with a concave dip in the bottom of the frame, a copper lip set into the tambour mirrored the form of the live edge of the London plane, and created an inviting interstice for the hand to explore. To see more of Bertram's wonderful work, visit his website: www.bertramwhitford.com.



Little Sister Big on Performance

Little Sister is a mini hollowing tool based upon the highly successful Brother System 2 range

Talk with your Hamlet Stockist today

Compact fixing screw
Hollow through 13mm
openings with ease!

Tapered Stem
for maximum rigidity

Proudly
Made in the UK

DVD
VIDEO
Free DVD
included

hamlet
CRAFT TOOLS

sales@hamletcrafttools.com
www.hamletcrafttools.com
+44(0)1142321338

3 configurations available



Ask about the interchangeable scraper - Ref HS187B



t: 01768 899895

*The
Wood Workshop*

2016
Course Dates now
on our website!

Woodworking Courses in the beautiful Lake District

Woodwork Course 1 (Tools and Things)

A self-interest woodwork course where the aim is to give you the confidence and the knowledge to use basic hand tools and some of the more common power tools.

You will be able to pick from a list of projects before you arrive that I believe you can complete in 5 days or less so that you will go home with one of them and you can proudly say "I made that".

I cover the teaching of how to handle tools by getting you started on your project and, as you need to use a new piece of equipment, I show you how. This means that the instruction is fresh in your mind and you do the task there and then.

On all courses there will only be a maximum of 4 at a time, this will mean that I will be available when you need help and advice.

Woodwork Course 2 (Wood and Things)

This is a continuation of course 1 (tools and things) with the emphases on timber, what are acceptable defects in timber and what isn't, how do you write out a cutting list that means something to your supplier, what to look for when buying wood and what to avoid.

You will ideally have done course 1 (tools and things) or have a good working knowledge of how to use hand tools and have used hand held power tools.

The projects for you to pick from will be more complicated and will involve the use of the more sophisticated hand tools and hand held power tools and will include using some of the static power tools in the workshop. We will also be looking at buying timber, making cutting lists and drawing plans.

Woodwork Course 3 (Project Days)

The advanced course is rather different from the previous two.

To come on this course you will need to have done both the other courses and have used your skill at home on your own projects and be ready to take on something more difficult.

WoodRat Courses

This course will teach you all the principles that you need to know!

Visit our website for more information & updates on 2015/16 course information:

www.woodworkshop.co.uk

t: **01768 899895**

e: **enquiries@woodworkshop.co.uk**

The Wood Workshop

7-8 Redhills Business Park, Penrith,
Cumbria CA11 0DT

www.woodworkshop.co.uk

Illuminated reading

This lamp by Peter Benson is simple but the long pieces pose some handling challenges

The arm of this lamp handily reaches over the shoulder of the reader. I first prepared a prototype in pine and the length and angle of the arm were made adjustable. I began trying it at various angles to see what worked best.

For the final run, I used a chunk of seasoned oak, which looked like a railway sleeper. It had been maturing for many years and was almost too heavy to lift. The first task was to slice off a 1.8m long pole and take off the 'skin' of grease and grit.

My circular saw could not cut all the way through, so it had to be attacked from both sides, then I used a belt sander to remove the coating. Only after that did I dare run it

through the table saw, which was tricky as it did not have a single straight edge or side that I could follow. So I made a jig to hold the oak and run down the rip fence. A baseboard of 6mm ply was just thin enough to allow the blade to cut right through the oak pole. I attached this carrier to the underside of my piece, using a countersunk woodscrew at each end, screwing into parts that would eventually be cut off. Now I could run the edge of the carrier down the fence of the table saw to get a straight edge. I was eventually left with a straight pole, 50 × 31mm and 1.8m long. The length was also a problem, so I constructed an extension table for the table saw using a rolling pin.

MAKE

Step 1 After cutting your pieces to size, round over the top of the pole (A). I used a handsaw to remove a 45° corner then sanded to final shape, **photo 1**.

Step 2 Cut the tenon at the bottom of the pole. I did this with the table saw, removing the riving knife so I could nibble the tenon. This posed no unusual hazard, since there would be no offcuts to jam and cause kickback, and my homemade saw guard remained in place as always, **photo 2**. The tenon goes through the base and has shoulders only large enough to hide any discrepancies in the final joint.



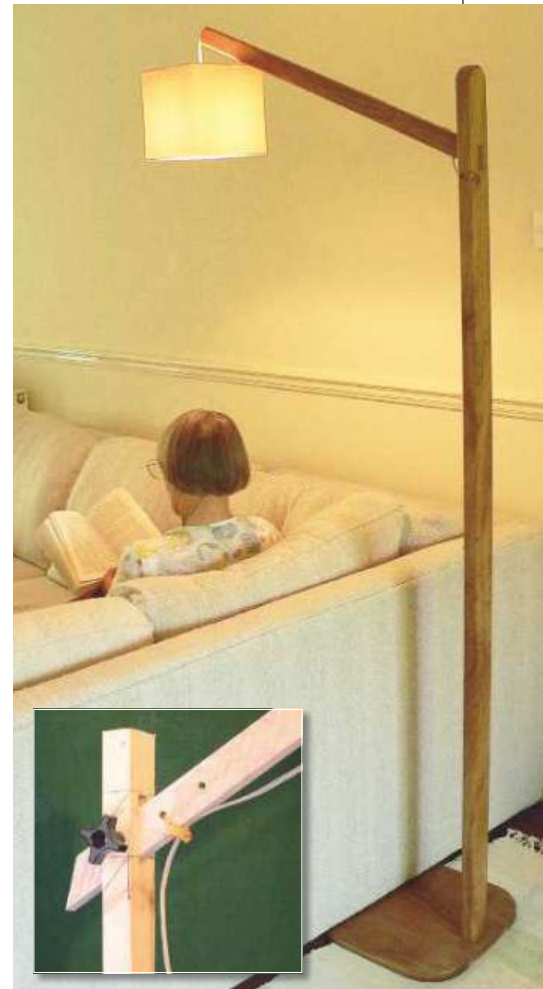
1 To round over the pole, clamp a sander to a bench and move the workpiece in an arc

Step 3 Having established the arm angle, cut the mortise: I used the slot-mortiser of my Kity combi. The corners were rounded by the cutter, but I wanted to round over the edges on the arm/tenon to match.

Step 4 Round over all edges using a router and a 1/4in round-over cutter. Due to the pole's length it's difficult to use a router table. I clamped the pole to the edge of the workbench and clamped a similar piece of pine to the pole, with a couple of spacers between, so I had two pieces to rest the router on, with a 'channel' for the cutter to run in. For the top of the pole I clamped a



2 It's best not to run a workpiece against the rip fence while cross-cutting, as it can catch



An adjustable prototype helped determine the angle

couple of scraps to the bench to give me something to rest the router on.

Step 5 I planned to run the wiring in a slot along the top edge of the arm, down through a hole in the arm, then in another slot down one face of the pole. At the bottom, the wire would pass through the mortise and under the base. You could rout the slots in the arm and down the pole but I used the table saw, making a 5mm deep cut as I passed the pole along the fence.



3 The slot mortiser on the Kity combi machine made easy work of the mortise

Note that at the bottom of the pole, the slot continues to the end, but the wire joins only below the arm, so the slot must not go all the way to the top of the pole. I practised on a piece of scrap, marking on pieces of masking tape stuck to the fence and on the pole to indicate where to stop. Since the wire was 5mm diameter and the saw blade cut a kerf only 3mm wide, I moved the fence 2mm and repeated the cut.

Step 6 Rout a double rebate for the push switch: one for the body of the switch and a shallower one for the cover plate.

Step 7 Sand down an offcut to make a cover for the switch. Drill a hole for the switch, then drill and countersink for No.4 screws.

Step 8 Create the arm (B) from a slimmer piece of the oak, 38 × 20 × 711mm long, planed, rounded at the lamp end and along its edges. Make a slot along the top edge, ending at a 6mm hole drilled through the arm for the wire.

Step 9 The hole in the arm must be perpendicular, so I used the slot mortiser to drill it, then cut the slot along the edge of the arm with the table saw as before.



Masking tape marks show where to stop the cut

Step 10 The base is a 25mm-thick piece, 305mm square, which I made by gluing up three narrow boards (C&D). Shape with a straight cutter in the router, its bearing following a template attached to the base with double-sided tape.

Step 11 The pole attaches to the base with a mortise and tenon. The wire passes through the same mortise, so you need an extra 6mm hole. Using the slot mortiser, I cut a mortise to match the tenon cut earlier on the bottom of the pole. The corners of the tenon were then removed with a sharp chisel, so it fitted the mortise.

Step 12 The wire passes through a slot under the base towards the front of the lamp. It too was cut on the table saw,



The adjustable version that Peter made in pine to find the best angle



A cover cleverly hides the switch

ending up with a slot 5 × 5mm from mortise to front edge.

Step 13 Sand everything down to 240 grit, then apply three coats of Danish oil.

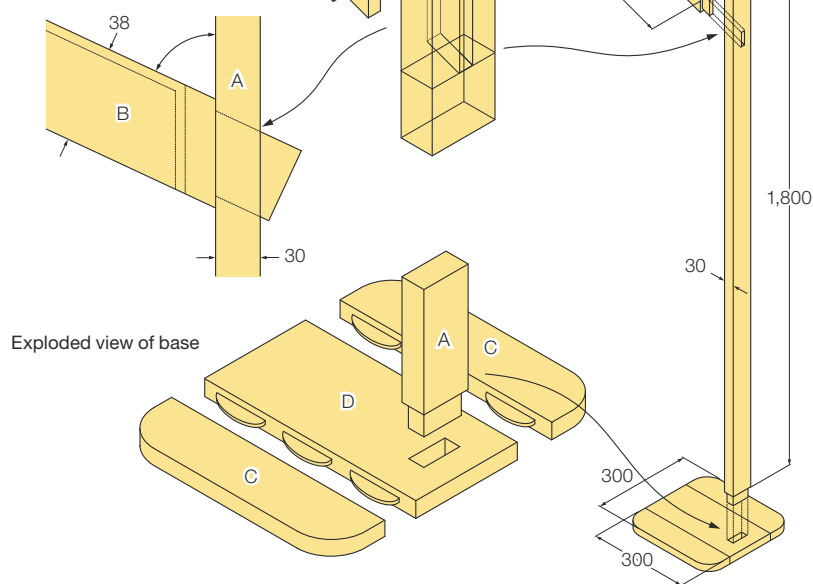
Step 14 During assembly it's important to put the wire through the base mortise while slotting the vertical pole into the base. Glue the tenon and wedge it from underneath to be sure of a solid joint. The top/arm joint do not seem to need this.

Step 15 The electrics comprise a plug at one end of the wire, a bulb-holder and shade at the top end, and the push-button switch recessed into the pole. For the switch, I removed a short piece of white plastic, cut the Live wire (brown) and connected the cut ends to the switch terminals. The Neutral (blue) continues unbroken beneath the body of the switch. This is held in place by the oak cover plate, attached with two No.4 × 12mm wood-screws in the carefully pre-threaded holes. If you are unsure about any of the electrics used, ask a qualified electrician to help. [www](http://www.getwoodworking.com)

Floor lamp

How it fits together

That tricky mortise and tenon joint: exploded view (right) and cross-section (below)





www.routercutter.co.uk

your online mechanism for resourcing quality tooling
specializing in 'industrial grade savvy'

Our online stocks are genuine and all goods are mailed from the UK.
Whiteside have been manufacturing quality industrial grade router bits for more than 30 years. Proudly made in North Carolina USA. Router bits designed & engineered for the Woodworker.

We now also stock **Southeast Tool Inc.** router bits and accessories. Tools from the smiley people. Made in USA.



WHITESIDE MACHINE COMPANY

Nominated in both categories by Fine Woodworking Magazine June 2007 - In an 18 bit road-test evaluation
Author's Choice - BEST OVERALL / Author's Choice - BEST VALUE



Contact

Website: <https://routercutter.co.uk>

Email: sales@routercutter.co.uk

Office address: ROUTERCUTTER.CO.UK

South Point / Old Brighton Road
Lowfield Heath / Crawley
West Sussex / RH11 0PR / UK

IN STOCK NOW:

The "ULTIMATE"

PATTERN & FLUSH TRIM BITS
2+2 Compression Technology
Bearing guided for every workshop
UDP9112 Pattern Bit
UDFT9112 Flush Trim Bit
UDC9112 Combination Bit
by **WHITESIDE**

ALSO NOW IN STOCK:

2 flute spiral bits with metric "D"

1/4" shank, 5mm cutting diameter

1/4" shank, 6mm cutting diameter

1/2" shank, 8mm cutting diameter

1/2" shank, 10mm cutting diameter

1/2" shank, 12mm cutting diameter

Custom made in the USA by **WHITESIDE**

Special price on **WHITESIDE RDS200A**

1/2" shank, down cut spiral

D = 12mm; c/l = 50.8mm; o/a = 101.6mm

GBP 35.00 per piece

Flexidisc Sander/Grinder

The Flexidisc sander gives a superb finish on wood, metal, fibreglass, car body filler and all hard materials.

Its fast rotation speed achieves sensational results in a fraction of the time normally taken by conventional sanders.

This versatile tool also sharpens chisels, plane blades, lathe tools, axes and garden tools without the rapid overheating of normal abrasive wheels.

This is the ideal tool to prepare your timber prior to varnishing with Le Tonkinois varnish.

www.flexidiscsander.co.uk

Tel: 01628 548840



Le Tonkinois Varnish

Le Tonkinois is a natural oil based yacht varnish. Perfect for outdoor, indoor and marine use. With Le Tonkinois varnish the options really are endless.

Combining unrivalled protection on materials including cork flooring, stone, metal and wood and brilliant permanent penetration, Le Tonkinois varnish leaves absolutely no brush marks and will restore the natural beauty of timber whilst removing your brush marks.

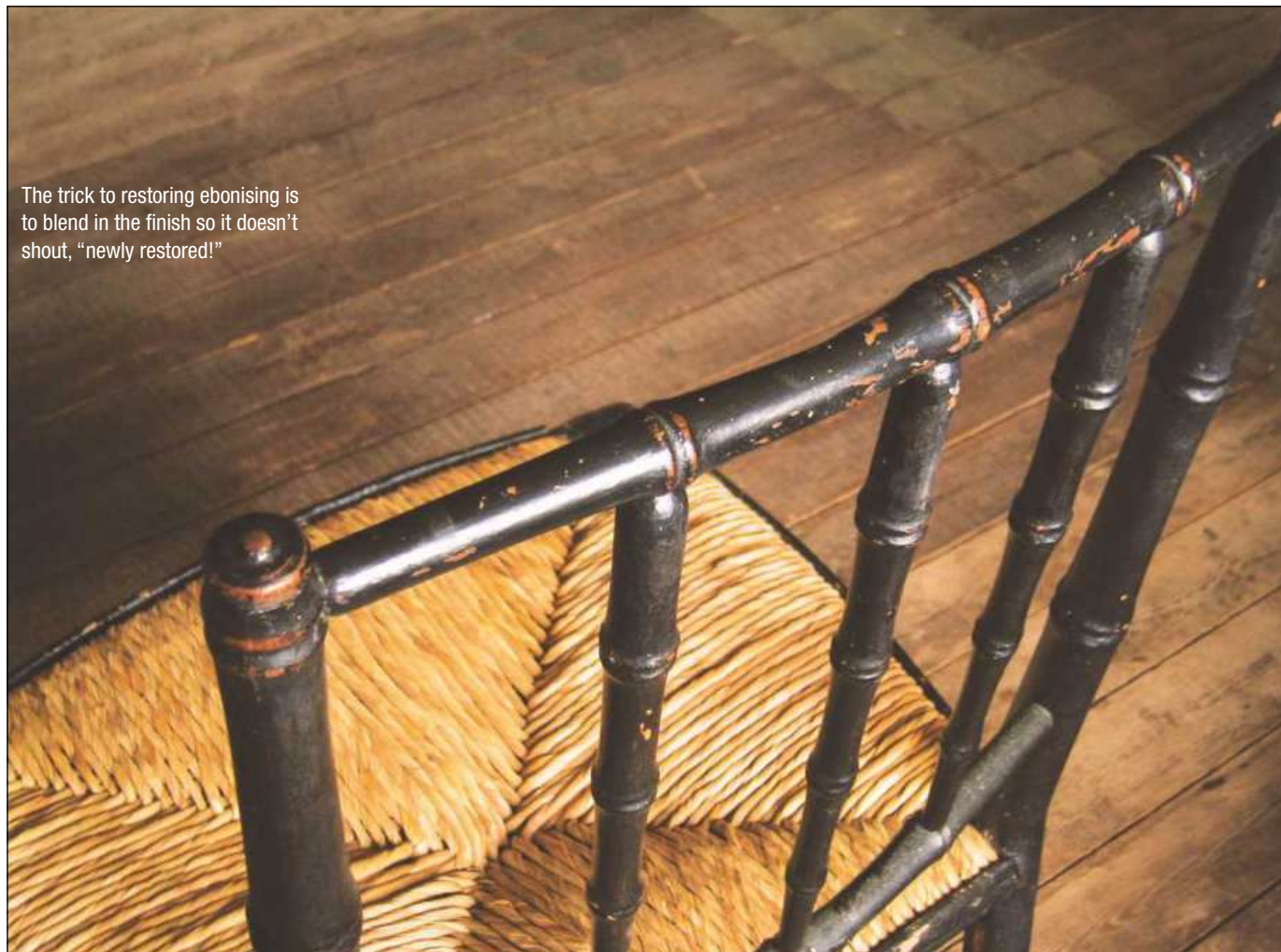
Flexible enough to move with the timber and able to withstand abrasion and impact, Le Tonkinois varnish is resistant to boiling water, UV, petrol, diesel and sea water. It won't crack, chip or peel off, making it perfect for all outside purposes as well as indoor.



www.letonkinoisvarnish.co.uk

Tel: 01628 548840

The trick to restoring ebonising is to blend in the finish so it doesn't shout, "newly restored!"



Dark secrets

Stephen Simmons reveals the techniques that underlie the smooth surface of ebonised wood

Let's start the easy way with a history lesson. Ebony became available in commercial quantities in Europe in the early 17th century and its subsequent popularity was partly due to its exotic origins in tropical Africa and Asia, and also to the fact that its colour was so very different from any native European timber. Ebony is not always black, but it was the blackness that was valued. Its physical properties also made it attractive: it is resistant to decay in the damp conditions of north-west Europe; it is largely immune to shrinkage and warping (which made it ideal for mirror frames that were just

becoming popular at the time); and its tight grain also makes it very smooth and allows it to take a deep and lustrous polish.

The disadvantage of ebony, however, was that it was expensive and difficult to work. It therefore became associated with the highest quality work and skill – which is why French cabinetmakers are still known as *ébénistes*. To overcome the problem of expense, furniture-makers began to experiment with stains and polishes to make our cheaper native woods resemble the real thing. Hence ebonising, which can be regarded either as up-market fakery or environmentally sound timber stewardship!

Substitution

Ebony's close grain meant that substitute timbers had to be of a similar texture. Pearwood was often used for the handles of Georgian silver tea and coffees pots, and by the 19th century, beech, sycamore and other fruitwoods were all being ebonised for larger pieces of furniture. I've also come across ebonised mahogany, but I wouldn't recommend it as its open-grain takes a lot of filling. Contemporary treatises abounded with recipes for creating the colour, using raw materials that ranged from acids to lamp black. Some of these ingredients are either no longer generally

available, or are downright dangerous to use, but the need for a close-grained timber remains constant.

Ebonising

Rather than repairing damage to an existing finish, I'll explain the ebonising process by starting from scratch with a new piece of wood as it will illustrate the basic principles better. Beech and sycamore are probably the best woods to use, but merely staining them black is not sufficient. There are three essential requirements. First, the grain must be filled and any figuring obscured completely – the finished product must simply be smooth, black and shiny. For many Victorian pieces this pure blackness was designed to emphasise their overall shape and line.

Second, the finish must be black rather than a very dark grey or brown. It is a common misconception that there is only one black, but there is an enormous variety, and a blue-black rather than red-black is essential. In Liberon's earth pigments range, for example, this would mean using the 'Vegetable Black'.

Thirdly, your final product will only be as good as your preparation. The blacker and shinier the finish, the more obvious any inadequacies will be, such as tool marks or abrasions against the grain.

Belt-and-braces

I favour the belt-and-braces approach, using a combination of water-based concentrates to colour the wood itself, and earth pigments as well as spirit-based concentrates to colour the shellac (French polish), which used to build the smooth finish that's essential to ebonising.

The first step is to ensure that the surface is perfectly smooth and grease-free and then to stabilise it. Do this by wetting it with water to raise the grain then, when dry,

cutting it back with a 240 grit abrasive; repeat the process until the surface remains smooth when wet. Let it dry thoroughly.

The next step is to apply a black water-based concentrate with a soft brush. Leave this to dry again, and then seal it in with three or four rubbers of dilute shellac. This will give a good basic blackness, but the figuring in the wood may still be evident and will need to be obscured. You can buy proprietary black shellac or make your own by adding a spirit-soluble concentrate to button or garnet polish, but even with multiple coats they are not sufficiently opaque to obscure the figuring. And this is where the earth pigment comes in...

Mix the pigment into the shellac and brush it evenly over the surface with a soft polisher's mop. The mixture has two properties: it is completely opaque, and as the pigment is insoluble in the shellac, it will also help to fill the grain. Let it cure overnight and then rub down gently with '0000' grade wire wool, taking care not to cut through. At this stage it will look grey and powdery but don't worry – the deep smooth blackness is about to return permanently.

The fourth stage involves building up

'Vegetable Black' earth pigment from the Liberon range. Visit www.liberon.co.uk



the polish and filling any remaining open grain in the normal way of hand French polishing but with one difference: the shellac is blackened with a concentrated stain, as above, and its use will add to the deep lustre. The shellac will need ample time to cure, after which it will need to be cut back two or three times, so allow yourself a couple of days for this work. This may all sound rather laborious, but it's essential that you put in the work if you want to achieve a quality finish – and with ebonising, the finish is everything and will come under close scrutiny.

Repairing ebonised finishes

Patching damaged ebonising can be fiddly, but the same raw materials are used and the same principles apply. Don't necessarily aim for perfection, though: if other parts of the piece show signs of wear, then allow some of the wood to grin through the black a little on the high spots, edges and corners so that it all blends in and doesn't shout, "newly restored!"

Let's end with a restoration conundrum. The Victorian middle classes were slaves to fashion: not only did they destroy a lot of good 18th-century wax and oil finishes with French polishing, they also covered other original finishes with their mania for home ebonising. So, what do you do? Repair the damaged ebonising or remove it all to reveal the original finish? [www](http://www.getwoodworking.com)

TOP TIP

Keep the brushes and French polish rubbers that you use for ebonising separate from other tools, and don't use them for anything else. The black lingers horribly and will contaminate any other colour or shellac



Liberon's chart showing the various colours in the earth pigments range

Thomas Flinn & Co.

Saw & Hand Tool Manufacturer
Sheffield, England



The UK's last remaining traditional
saw manufacturers



Now also manufacturing Clifton Planes!

Garlick
MADE IN SHEFFIELD
ESTABLISHED 1858

E.T. ROBERTS
& LEE

PAX
ESTABLISHED 1776

CLIFTON

Tel: **0114 2725387**

orderonline@flinn-garlick-saws.co.uk

www.flinn-garlick-saws.co.uk



BY COLIN SIMPSON

Back to basics bowl

Colin Simpson talks bowl gouge techniques, shows you how to turn a simple shallow bowl in wet walnut as well as teaching you some new skills

This month I am taking you back to basics by explaining some bowl gouge techniques and I will introduce a technique called wet sanding. I am going to turn a simple 356mm diameter shallow bowl in wet walnut, but first a word of warning. Walnut contains a lot of tannic acid; this reacts with steel and can turn your tools and parts of your lathe black. It can also cause metal corrosion so don't leave the wet shavings lying about on your lathe, even over a coffee break.

Getting started

Start by chainsawing a butt into slabs and then cut a disc on the bandsaw, **photo 1**. Find the centre of what will become the top of the bowl and screw on a faceplate, **photo 2**. Check the toolrest is secure, rotate

the blank by hand to make sure it revolves freely and check the lathe's speed. Start by turning this piece at around 500rpm as it will be out of balance. Start by truing up the edge with a swept-back bowl gouge, **photo 3**, using the tip of the tool with the flute about half open, keeping the handle lower than the cutting tip. Keep the pressure down on the toolrest but don't push the tool into the wood. Slowly slide the tool along the toolrest and just take off the high points on the edge of the blank. Try not to alter the angle of the handle as you move the tool along the toolrest. If you feel the tool banging on the high points as the blank revolves, then you are pushing too hard into the wood. Repeat this cut as many times as necessary to bring the blank into round. This cut is known as a push cut.



1 Cut the disc from the slab on the bandsaw



2 Decide which surface is to be the top and screw on the faceplate



3 Use a push cut to true up the edge...



4 ... and a pull cut to flatten the bottom



5 The tip of the gouge is used to start cutting the spigot



6 Use the point of the skew to cut a pop mark in the centre of the spigot



7 Shape the bottom of the bowl using both push and pull cuts



8 Cut a decorative bead on the foot with the skew chisel

Gently does it

Next, flatten the base using the same gouge but this time using a pull cut, **photo 4**. Place the tool on the toolrest on its side with the flute facing the wood. The bottom wing does the cutting – it's really a scrape. Start at the centre and pull the tool towards you, moving it towards the edge of the blank. Again, don't push hard into the wood, but keep the pressure down on the toolrest. **Photo 5** shows the same pull cut from a different angle and shows where the shaving should come off the tool. Here, I started the cut using the tip of the tool to cut in to start making my chucking spigot. When I had cut in about 2mm, I transferred the cut to the bottom wing to complete a pull cut. Repeat this cut until the spigot is about 6mm deep and the bottom flat. It is a good idea to make a small pop mark in the very centre of your spigot as this will help centre the bowl later. Do this with the corner of a skew chisel, **photo 6**.

Shaping cuts

The next step is to shape the outside of the bowl. This can be done entirely with pull cuts, using the bottom wing of the gouge to cut, or using push cuts, or using a combination of both. The push cut, **photo 7**, is a bevel supported cut and so should give you a cleaner surface. I cut the outside of my bowl to an ogee or 'S' shape. To create a curve with a bevel supported cut, you must swing the handle of the tool. So in **photo 7**, I started the cut at the chucking spigot and as I slid the tool along the toolrest, I slowly pushed the handle away from me to cut the convex curve and then slowly swung the handle back towards me to finish the 'S' shape. Continue these cuts until you are happy with the outside shape. I decided I wanted a small foot on my bowl, and I cut this and shaped it using a skew chisel on its side as a scraper, **photo 8**.

There was a piece of rippled figure on the walnut, which can look nice, but resulted in



9

The rippled figure here caused some tear-out

a lot of torn grain, **photo 9**. This can be cleaned up using a series of finishing cuts, with the same bowl gouge. These can either be bevel supported cuts or shear scrapes, such as the cut shown in **photo 10**. In both cases, the handle is lowered until the cutting edge is about 45° to the surface of the wood. To shear scrape, put the bevel onto the wood and then roll the tool gently until just the cutting edge is touching the wood. Take light, gentle cuts and aim to achieve very fine spiral shavings, **photo 11**, remembering to keep the handle low so the cutting edge stays at 45° to the wood.

Photo 12 shows the same area on the back of the bowl after a couple of finishing cuts.

Wet sanding

Normal sanding on wet wood will very quickly clog the abrasive so it is worth wet sanding wet wood. This method has several advantages: firstly, the surface of the wood remains wet and does not dry out due to heat generated by friction and secondly, it does not create dust. Instead the dust becomes a slurry on the abrasive that can easily be washed off. You can wet sand with oil, but in this case, I used water. Be careful with water and remember that water and electricity do not go well together, so keep anything wet away from the electrical parts of the lathe. Reduce the speed of the lathe to avoid water spraying everywhere. Wet the surface you want to sand and the abrasive and hand sand in the normal manner, between 6 o'clock and 9 o'clock, **photo 13**. **Photo 14** shows the slurry produced. Wash this off regularly in the water bath and continue to sand down through the grits until you are happy with the surface finish.

Reverse turning

Reverse the bowl onto the chucking spigot, **photo 15**. Note here that the top surface of the chuck jaws are sitting tight up against the bottom of the bowl; this gives the strongest hold. Do not be tempted to make



10

Fine finishing cuts should resolve the problem



11

Try to achieve fine spiral shavings...



12

... which will help you to achieve a much better finish



13

Wet sand down to 400 grit...



14

... but keep washing the abrasive regularly to remove the slurry



15

The bottom of the bowl should sit on top of the jaws



16

This gap allows the bowl to move, creating a weaker hold



17 Shear cut the rim...



18 ... and cut the rest of the rim with a push cut



19 Start the hollowing with the tool over on its side



20 Swing the handle towards you and roll the tool up as it cuts down to the centre



21 A series of grooves can help prevent the gouge from skating



22 Continue hollowing, going a little wider and deeper each time



23 Cut a decorative bead on the rim.....



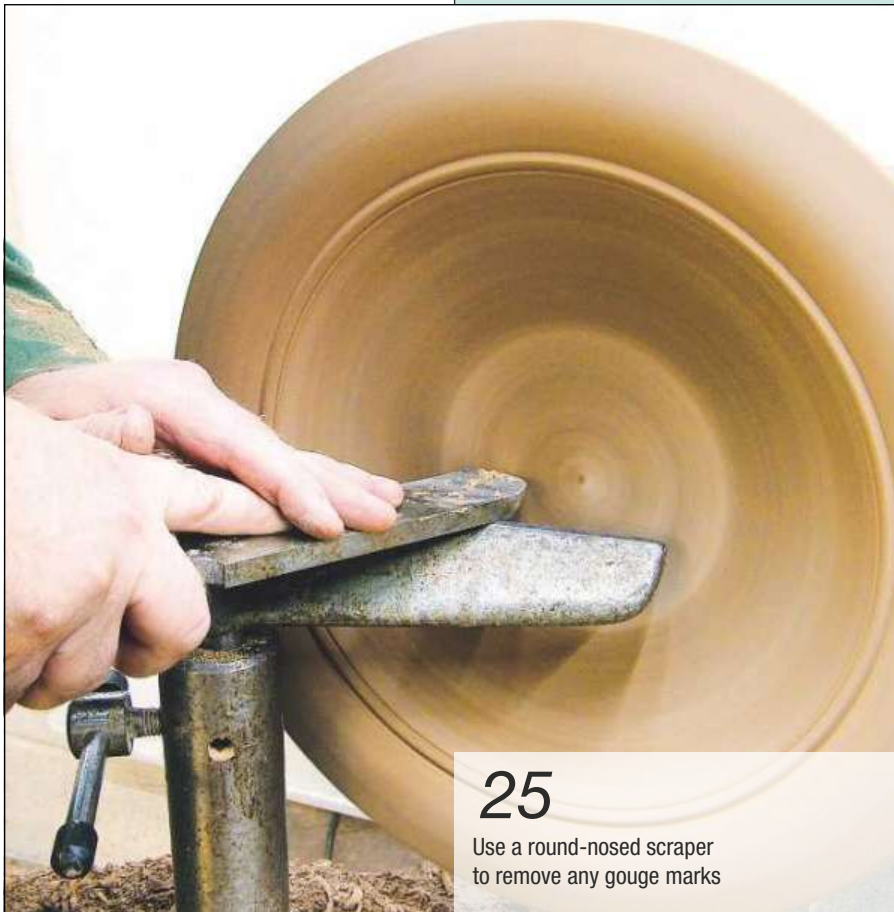
24 ... before completing the hollowing

the spigot too deep so that it bottoms out on the jaws, creating a gap between the top surface of the jaws and the bottom of the bowl, **photo 16**. The bowl could move in the chuck and split the spigot.

Flatten the top of the bowl using a pull cut, as shown in **photo 4**. I would normally start hollowing the bowl at this stage but, because it is wet wood and I intend to turn the piece to a finish, I need to turn it reasonably thin to prevent it from splitting. If I hollowed the bowl to its finished thickness – about 5mm – there would not be enough strength in it to allow me to work on the rim. At best the wood would flex under the tool and at worst, the bowl could explode. So, with the bowl still solid in the middle, now is the time to work on the rim. Use a shear cut, **photo 17**, to shape the outer part of the rim and a push cut, **photo 18**, to round over the inner part. Now you can start the hollowing.

Hollowing

Place the gouge on the toolrest so the flute is pointing to 3 o'clock with the handle well over the bed bars. Use the tip of the tool to create a groove about 4mm from the centre, **photo 19**. Next, swing the handle towards you at the same as pushing the cutting edge down the side wall and across the bottom of the bowl towards the centre. This action should be done at the same time as rotating the tool anti-clockwise until the flute is pointing to about 1:30, **photo 20**. Continue this cut, each time going a little wider and a little deeper. The most difficult part of this cut is the initial entry because you must enter the wood with the cutting edge and there is a danger that the tool will skate across the surface of the timber. You can help prevent this from happening by making a series of grooves in the wood using a parting tool or skew chisel, **photo 21**. The tip of the bowl gouge can then nestle in these grooves and so prevent the tool from skating, **photo 22**. Before you complete the hollowing and before the bowl gets too thin, cut a bead to delineate the rim, using a skew chisel held on its side, **photo 23**. Now finish hollowing trying to achieve an even wall thickness of about 5-6mm, **photo 24**. This should be thin enough to allow the bowl to move without splitting as it dries out. With practice you should be able to achieve an acceptable finish straight from the gouge, but you can use a round-nosed scraper to tidy up the inside if necessary, **photo 25**. I like to hold scrapers further down the handle with the rest of the handle tucked under my forearm, **photo 26**; this helps counteract the pivotal force that comes from the cutting edge overhanging the toolrest.



25

Use a round-nosed scraper to remove any gouge marks



26

For greater stability, tuck the handle under your forearm



27

Reverse chuck the piece onto a dolly and a soft piece of leather

Final touches

Wet sand the inside of the bowl down to 400 grit, then remove it from the chuck. To remove the chucking spigot, use a mushroom-shaped dolly held in your chuck with a piece of thin leather sandwiched between this and the inside of the bowl, **photo 27**. Bring the tailstock up to the pop mark in the centre of the chucking spigot; this will keep the piece pushed up against the leather and dolly. This method of holding the piece allows you access to the chucking spigot and base, **photo 28**. Use a 10mm spindle gouge to remove the spigot and slightly dish or concave the base, leaving just a small stub for the revolving centre. This needs to be removed off the lathe with a sharp chisel, **photo 29**.

Finally, let the surface of the bowl dry and give it a light sanding with 600 grit abrasive by hand going with the grain. This should remove any raised grain. The piece will still be wet and you should expect it to move a little, but you want to slow the drying process down, so give the piece a liberal coat of boiled linseed oil and wipe off any excess after about 10 minutes. Keep the piece in a cool part of your workshop for a month or two so it doesn't dry out too quickly and then give it several more coats of oil. [www](http://www.getwoodworking.com)



28

Bring the tailstock up to the pop mark and remove the spigot



29

The stub can be cut away with a sharp chisel



30

The completed bowl with its proud owner!

Woodworker SUBSCRIPTION ORDER FORM

DIRECT DEBIT SUBSCRIPTIONS (UK ONLY)

Yes, I would like to subscribe to **The Woodworker**

- ☐ Print + Digital: £10.50 every 3 months
(**SAVE 38%** on shop price + **SAVE 75%** on Digital Download + **FREE GIFT**)
- ☐ Print Subscription: £8.50 every 3 months (**SAVE 38%** on shop price + **FREE GIFT**)

YOUR DETAILS MUST BE COMPLETED

Mr/Mrs/Miss/Ms.....Initial.....Surname.....

Address.....

Postcode.....Country.....

Tel.....Mobile.....

Email.....D.O.B.....

I WOULD LIKE TO SEND A GIFT TO:

Mr/Mrs/Miss/Ms.....Initial.....Surname.....

Address.....

Postcode.....Country.....

INSTRUCTIONS TO YOUR BANK/BUILDING SOCIETY

Originator's reference 422562

Name of bank.....

Address of bank.....

.....Postcode.....

Account holder.....

Signature.....Date.....



Sort code.....Account number.....

Instructions to your bank or building society: Please pay MyTimeMedia Ltd. Direct Debits from the account detailed in this instruction subject to the safeguards assured by the Direct Debit Guarantee. I understand that this instruction may remain with MyTimeMedia Ltd and if so, details will be passed electronically to my bank/building society.

Reference Number (official use only).....

Please note that banks and building societies may not accept Direct Debit instructions from some types of account.

CARD PAYMENTS & OVERSEAS

Yes, I would like to subscribe to **The Woodworker**, for 1 year (13 issues) with a one-off payment

UK ONLY:

- ☐ Print + Digital: £47.50 (SAVE 29% on shop price + SAVE 75% on Digital Download + FREE GIFT)
- ☐ Print: £39.50 (SAVE 29% on shop price + FREE GIFT)

EUROPE & ROW:

- ☐ EU Print + Digital: £67.00
- ☐ EU Print: £59.00
- ☐ ROW Print + Digital: £67.00
- ☐ ROW Print: £59.00

PAYMENT DETAILS

☐ Postal Order/Cheque ☐ Visa/MasterCard ☐ Maestro

Please make cheques payable to MyTimeMedia Ltd and write code X326 on the back

Cardholder's name.....

Card no:.....(Maestro)

Valid from.....Expiry date.....Maestro issue no.....

Signature.....Date.....

TERMS & CONDITIONS: Offer ends 27th November 2015. MyTimeMedia Ltd & The Woodworker may contact you with information about our other products and services. If you DO NOT wish to be contacted by MyTimeMedia Ltd & The Woodworker please tick here: ☐ Email ☐ Post ☐ Phone. If you DO NOT wish to be contacted by carefully chosen 3rd parties, please tick here: ☐ Post ☐ Phone. If you wish to be contacted by email by carefully chosen 3rd parties, please tick here: ☐ Email

**POST THIS FORM TO: MY TIME MEDIA LTD,
3 QUEENSBRIDGE, THE LAKES,
NORTHAMPTON, NN4 7BF.**

**HURRY
OFFER
CLOSES**
27TH NOVEMBER
2015



PRINT + DIGITAL SUBSCRIPTION

Free Book: The Woodworker's Technique Bible*

13 Issues **delivered to your door**

Save up to **38% off the shop price**

Download each new issue to your device

A **75% discount** on your Digital subscription

Access your subscription on **multiple devices**

Access to the **Online Archive** dating back to January 2007



PRINT SUBSCRIPTION

Free Book: The Woodworker's Technique Bible*

13 Issues **delivered to your door**

Save up to **38% off the shop price**

SUBSCRIBE TODAY

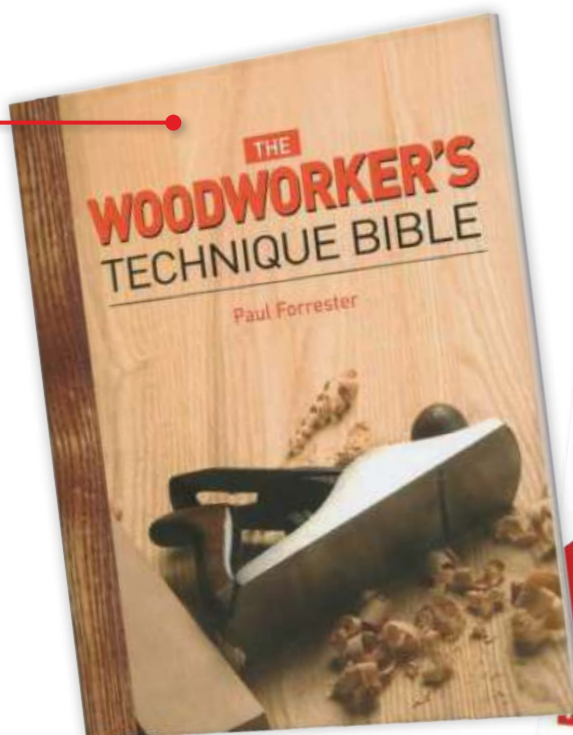
CHRISTMAS OFFER

DIGITAL
SUBSCRIPTIONS
AVAILABLE ONLINE!

Receive a **FREE** Book:
**The Woodworker's
Technique Bible***
when you subscribe today

WORTH £14.99

"A complete step-by-step
guide to essential
woodwork techniques"



The **Woodworkers Technique Bible** by Paul Forrester is a complete step-by-step guide to essential woodwork techniques, from choosing and cutting lumber, onto planning, measuring and marking, and through to cutting, shaping and joining. Essential troubleshooting tips are supplied throughout for when things don't quite go to plan.

With this book you will learn to control power tools with accuracy, and how to select and use the ten essential hand tools that will give your work a beautiful hand-finished quality. You will also find a wood identifier section that calls out a lumber's key characteristics and suggests how to use it. And there is a selection of projects - children's toys, simple furniture and bird boxes - with cutting lists and full instructions so you can try out these techniques in practice.

TERMS & CONDITIONS: Offer ends 27th November 2015. *Gift for UK subscribers only, while stocks last.
**When you subscribe by Direct Debit. Please see www.mytimemedia.co.uk/terms for full terms & conditions.




SAVE
38% ** ON THE
SHOP PRICE &
75% ON DIGITAL

SUBSCRIBE SECURELY ONLINE

 www.getwoodworking.com/subscribe

CALL OUR ORDER LINE

 0844 243 9023

Lines open Mon - Fri 8am - 8.00pm GMT & Sat 9.30am - 3.30pm GMT

Quote ref: X326

UK calls cost 7p per minute plus your phone company's access charge. Overseas calls will cost more.



BY MIKE RILEY

Flat and square

Cheaper, quieter and very satisfying, too: preparing timber by hand needn't be slow or difficult, says Mike Riley

The most important part of any project is probably the initial stock preparation: without proper preparation no other part of the project can happen, it's as simple as that. When it comes to preparation you have three options: buy PAR timber, which is relatively expensive;

buy rough sawn timber and process it using machines; or break out the hand planes and do it yourself. My preference is for the latter because it's cheaper, safer and quieter. It's also not as slow as you might imagine, and when you've had a bit of practice, it's not that difficult either.

Tools for the job

It's not inconceivable that the entire process of stock preparation could be carried out using tools that you've made yourself, and there was a time when this would have been the case. I actually use a combination of homemade and bought-in tools, which



Back to basics: the whole process of stock preparation can be carried out using hand tools



Grit or silica embedded in the timber will damage the sole of a plane



3

With a planing stop, you can rely on the downward force of the plane to hold the board in place

include a selection of bench planes with sharp irons. Generally, I use four planes to take a board from rough sawn to finished: a wooden scrub, a 559mm-long jointer, a jack plane with an adjustable mouth, and a wooden smoother, **photo 1**. I also have an old wooden fore plane. I use a lot of recycled wood, and the fore plane is good for giving the boards a quick clean up to remove any grit or silica, **photo 2**, that might be embedded in the surface before it has the chance to destroy the sole of my jointer or smoother. This is a lesson I've learned the hard way. In my opinion, the first three of these planes are essential for stock preparation, though there is a certain amount of interchangeability: depending on the size of the workpiece and the amount of effort that you're prepared to expend, you could do the whole job with the jack plane.

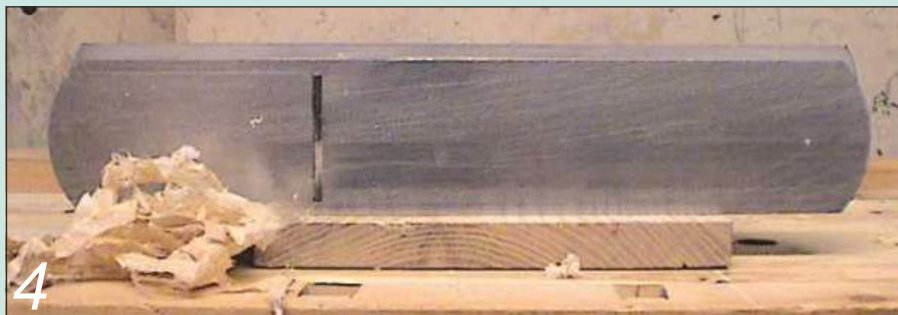
You'll also need a straightedge and a pair of winding sticks. I tend to cheat here and use the body of my jointer plane as a straightedge or in combination with my jack plane to form a pair of winding sticks. This will only work if the sides of your planes are straight and at right-angles to their soles. If yours aren't, then a pair of winding sticks is easy and cheap to make. Alternatively, there's plenty of machined winding sticks available to buy.

The final ingredient is a sturdy bench. It's important that the bench surface is flat, of course, as you'll be using it to prepare a reference surface.

The aim of the exercise

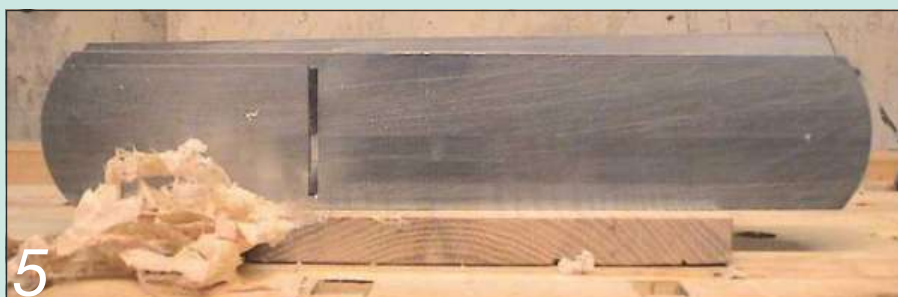
...is to end up with a piece of timber that's flat and straight on six sides, in length, width and diagonally, whose faces are co-planar or perpendicular to each other, and which is of the required dimensions. As you can imagine, it's a process that needs to be tackled in a methodical fashion if you're not to introduce problems that will come back to haunt you later.

To begin, then, you need to prevent the workpiece from rocking or flexing, so decide which side of the board will be the



4

Check for twist with your winding sticks. If all's well, the top edges of each stick will be parallel...



5

...unfortunately, it's more likely that the sticks will indicate some amount of twist



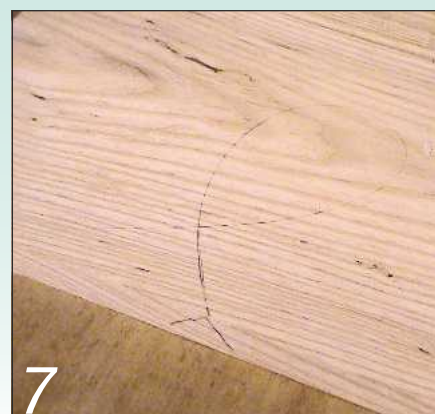
6

Successful edging: I hold the front of the plane body with my left hand, curling my fingers under the sole of the plane to act as a fence

reference face, and place it face down on the bench against a planing stop, **photo 3**. If the board is cupped, it's easiest to have the convex side face up to prevent it from rocking as you work on it; it also means removing less wood.

You now need to remove the high spots from the board so that it no longer rocks when placed face down. This means looking at the board, looking for light between it and your straightedge, planing away the high spots, and regularly testing the board for stability.

If the board rocks when you turn it over, try placing your fingers at diagonally opposite corners and moving them towards one another while rocking the board. When the board stops tipping, the high spot will be between your fingers. Another method is



7

You've heard it before, but mark prepared surfaces to indicate that they're reference faces and edges

to rub the face of the board on the bench top, which will burnish the high spots and make them easier to see. There is no shortcut to this unfortunately; the board must be made to lie still before moving on, or we won't be able to make the opposite side flat when we prepare it as the face side, and it'll be no use as a reference face.

When you're ready to start preparing what will become the face side, fix the board to the bench top firmly enough to stop it moving, but not so firmly that it's deformed by clamping. I use a planing stop and rely on the downward force of the plane to hold the board in place. Again, the aim is to remove any bumps that may be present, and the quickest and easiest way to do this is with the jack plane, usually skewed across the grain to bring any high spots



A shute, or shooting board, and a fiendishly sharp plane iron...



... are essential for preparing the ends of a board



Use a scrub plane diagonally across the board to take down almost to the required thickness...



...leaving this distinctive scalloped surface



Flat, square, and not a power tool in sight!

down to a uniform level. You could also use a scrub plane, though there's a danger of removing too much wood through over-enthusiastic scrubbing.

Once the worst of the bumps have been removed, put the scrub or jack plane aside and reach for the jointer. The longer sole of this plane won't follow the contours of the board in the way that the jack plane does, and so is more effective at knocking off the high points. Listen to the plane and hear the change in sound as the jointer starts to take longer shavings as the board gets flatter.

When you're able to take full-length shavings with the jointer, check that the board is flat. You should be continually checking for light under a straightedge when held against the surface, both across the board at various points and along its length. This is why I use my plane as a straightedge, because moving from planing to laying the plane on edge is easy to do.

Checking for wind

You also need to check for wind, or twist, **photo 4**, with your winding sticks by laying them across the face parallel to each other and perpendicular to the board. If all's well, the top edges of each stick will be parallel

to one another as you sight along the board. Unfortunately, it's more likely that the sticks will indicate some amount of twist, **photo 5**, which is removed by planing diagonally across the board from high corner to high corner, checking all the while that you don't remove too much wood. Once done, the face will be flat in all axes. At this point, you might like to take a few final passes over the surface with a fine-set smoother, though if the board is an internal element in a construction, this smoothing might be a step too far. Either way, you should now mark the surface with a face mark to indicate that it's a reference face.

Edging the board

The next step is to prepare one edge of the board so that it is flat and straight and at right-angles to the face side you've just prepared. This will become our face edge, another reference surface. Again, start by fixing the board to the bench. I clamp the board in my shoulder vice so that it is held firmly to the front side of the bench.

The jointer plane is the tool for preparing the edge, as its length allows it to ride over any valleys in the board's length. Some more experienced practitioners advocate

preparing the edge of a board with a curved iron. I might try it one day, but for now I get perfectly good results with a straight iron.

My approach is to check the wood with a straightedge and identify what the high spots are; it's sometimes helpful to mark them with a pencil. After taking a couple of light passes over the edge to remove the pencil marks, I check the edge for squareness with a small engineer's square referencing off the face edge. I do this at several points along the length of the edge and again mark any areas that need attention with a pencil. I continue to take light shavings from the edge until the pencil marks are gone and I can take a full-width, full-length shaving, constantly checking for squareness and addressing any deviations as I go.

In my opinion, the secret of successful edging, I think, is partially in the grip and partially in keeping the plane body horizontal. You can tell whether it's horizontal by the tote, which should be upright not tilted. As for the grip, I hold the front of the plane body itself with my left hand, **photo 6**, with the thumb on top of the plane and central to the body, usually just in front of the knob. I curl my

fingers under the sole of the plane and keep them pressed to the face of the wood so that I'm pinching the plane sole and using them as a fence to keep the plane straight. Make sure your board is high enough in the vice to avoid driving your knuckles into it.

The best way to check for squareness of the edge to the face side, meanwhile, is to press the stock of a square tightly against the edge you're working on and look for light between the blade of the square and the face side at points along its length. There should be none, and when this is the case, you can mark the edge as your reference edge. Now that you have two well-prepared reference sides, you can use them to accurately measure and mark off the other four sides.

You now want to take the board to its desired final width and true up the second edge. With the fence of a panel gauge running against the reference edge, mark off the required width of the board, **photo 7**. Because of the care you've taken preparing the reference edge, this line will be both straight and parallel to the other edge. If there is a large amount of waste, saw it off, otherwise it's easy to plane away a small amount with a scrub plane. This kind of wasting is the kind of use for which the scrub plane was originally intended.

You can square and true this edge using the same methods you used on the first edge, continuing to take light shavings from the edge until you've just shaved away the gauged line.

When it comes to the ends of the board, you'll need a square, a shute board, and a plane. Now, there are different types of plane that can be used for this job; I tend

GUIDING PRINCIPLES

Use tools wisely...

Use the right tool for the job in cases where it makes a real difference to the work. For example, when planing, I work through a series of stages starting with rougher work, for which I rely on the jack or scrub planes, followed by the long jointer. The smoothing plane is reserved for giving the surface the final polish. This approach makes the work faster and easier, both in terms of achieving the required result and the amount of effort that you'll expend

...and develop a feel for them

You have to learn how these tools feel when they're working for you. This is a case of building up muscle memory through practice. I think that the modern requirement for instant gratification, for having everything now, is partly to blame for the prevalence of machinery in small workshops, as the machinery produces usable results without the requirement for us to commit time investment in practising hand skills

Don't make work for yourself

This might seem an odd thing to say given that I am talking about preparing wood by hand, but don't do unnecessary work. Don't leave boards hugely over-length thinking that you can come back and cut them to length later. The dimensioning is part of the preparation

Don't make waste

Don't waste time using the scrub plane to reduce a board's thickness by half. Break out a frame saw or rip saw instead, and resaw the board into two pieces. Where once there were six sides now you have 12. Just think of all the hand tool practice you can get while making that flat and square!

to use my low-angle jack set for a very fine cut, and with its adjustable mouth closed right down. Another plane that could be used is the iron mitre plane, which is designed specifically for this purpose. Whichever plane you choose, the iron must be fiendishly sharp.

Secret of the shute

There is little secret to using a shute board, **photo 8**. If the reference edge has been properly prepared and the board itself is true, the ends you'll produce will be flat, square and at right-angles to the edges, **photo 9**. It can be no other way. So, dress one end, then turn the board around and mark the precise length required with a square and sharp knife. Saw away the waste and trim to the line on the board, taking fine shavings until the scribed line evaporates in the last pass of the plane. It might also be useful to lightly chamfer the corner of the board that you're planing into so as to avoid break-out in the long grain of the edge against the stop. The alternative is to put a piece of scrap wood in the shute and let that break out instead, though there is a risk that the scrap wood may compromise the accuracy for which you're striving.

Your board now has five finished faces and is the correct width and length. All that remains is to bring the board to the final thickness and dress the remaining surface, which will most likely become the show surface.

The required thickness of the board is marked by pressing the fence of a cutting gauge against the face side and scribing a line around all four edges. With the board secured to the bench, waste away wood until you've reduced the thickness of the board almost to the gauge mark. I prefer to use a scrub plane for this, **photo 10**, as it's by far the fastest method.

I plane diagonally across the board in one direction and then back the other way. This method means that I am able to take a heavy cut without causing tear-out; the scalloped surface, **photo 11**, that the scrub plane leaves is a kind of controlled tear-out in itself. If the board is tearing out, increasing the angle of attack can help; some boards may need to be approached at up to 90° to the surface grain, **photo 12**.

Just before reaching the thickness mark, I swap to the jointer plane and take the board down as far as the marks around the edges, checking periodically with the edge of the plane that I'm keeping the surface flat, and stopping just as I reach the marks on the edge. If you do this evenly all around the board, you can be confident that the two sides will be parallel to each other, and that the face itself is flat.

Now move on to the final step of the process, which is to take very fine overlapping passes across the board with a smoothing plane. With care, it's possible to achieve a standard of finish with the smoothing plane that can't be bettered by abrasive. www.getwoodworking.com

SHAVINGS & OFFCUTS

Face side

The face side that becomes the reference face may not be a show surface in the finished piece. As it's a reference face, locate it where it will interact with other reference faces in a construction, on the inside

Winding sticks

If poor eyesight makes it difficult to focus on both sticks at once, try making a small hole in a piece of paper and looking through it; the hole acts as an artificial iris and increases your depth of vision

THE UK'S PREMIER BRANDED HAND, POWER TOOLS & MACHINERY EVENT



'THE' TOOL SHOW '16

WWW.THETOOLSHOW.COM

FREE ENTRY • FREE PARKING • FREE SHOW GUIDE • FREE MASTERCLASSES
LATEST PRODUCTS • EXCLUSIVE SHOW OFFERS • DEMONSTRATIONS • BIG SAVINGS



VISIT STANDS STAFFED BY THE MAJOR BRANDS INCLUDING:



THIS YEAR'S BIGGEST & BEST ANNUAL TOOL SHOW

7th-9th OCTOBER 2016

FRI-SAT 10am – 5pm • SUN 10am – 4pm

KEMPTON PARK RACECOURSE • SUNBURY-ON-THAMES • TW16 5AQ

D&M TOOLS, TWICKENHAM • 020 8892 3813 • WWW.DM-TOOLS.CO.UK

THE TOOLS YOU'LL NEED

- 20mm bowl gouge
- Parting tool
- 10mm spindle gouge
- Skew chisel
- Spindle roughing gouge

You'll also need a long hole boring kit to drill the hole for the lamp flex through the spindle



BY ALAN HOLTHAM



Turning for beginners

6: Theory into practice

It's time to put into practice everything you've learned about the lathe, its tools and accessories, and the sort of timber to use. The best way of bringing all this together is to make a small project, and I've chosen a two-piece table lamp. It needs just five turning tools and the minimum of timber, but it does incorporate all the basic techniques you need to learn as a beginner

The timber I'm using is some yew – garden prunings from a couple of years ago. The spindle is turned from a branch about 65mm in diameter, while the 125mm base is cut from a larger blank. You really don't have to spend a fortune on expensive, exotic blanks when there is so much colour and figure in home-grown material, particularly when it is otherwise destined to be firewood. Now follow the step-by-step...



1 Find the centre of the spindle blank. Use a pair of dividers to draw out a maximum diameter circle and mark the centre accordingly



2 Use a soft-faced mallet to knock in the drive centre so the indentations on the wings penetrate deep enough to provide a positive drive



3 Mount the blank between centres, preferably using a revolving centre in the tailstock to minimise burning. Don't over-tighten everything



4 When you bring up the toolrest, spin the work round by hand a few times to check for clearance before switching on the lathe



5 Select the correct speed. Roughing out of a piece of this size is normally carried out at about 750rpm until it becomes properly balanced



6 Start the roughing out process using the 6mm gouge with the handle well down and pointing the flute in the way you want to travel



7 Rough out about half of the blank and then move the toolrest down to allow you to work off the other end of the workpiece



8 Stop occasionally and move the toolrest in closer to the work. The speed can probably now be increased to about 1,200rpm



9 Use a pair of callipers and the parting tool to form a 25mm diameter pin about 20mm long on the bottom end of the spindle



10 Slightly undercut the shoulder of the spindle to ensure that it sits down tight onto the base when the parts are assembled



11 Use the parting tool to mark all the main changes of detail. This gives you an idea of the finished proportions of the overall piece



12 Use the 10mm spindle gouge to round over the bottom bead. Roll it fully onto its side to get into the tight corner by the shoulder



13 Use the same tool for cutting the coves, this time rolling it onto its back as you make a cut downhill from either side



14 Clean up the top end using the skew chisel on its back edge to make a slicing cut down to the tailstock centre



15 Form the bigger sections of detail using the spindle roughing gouge. Keep the bevel rubbing so that you're cutting off clean shavings



16 Cut the deepest coves last to maintain the spindle strength. Make the shoulders the same width, although not necessarily the same diameter



Don't be afraid to remove plenty of material. You don't want to leave the finished design looking too thick and heavy



Use the long hole boring kit to drill the central hole for the flex down the length of the spindle. Clear the flutes regularly



Use the counterbore tool (normally supplied as part of the long hole boring kit) to drill a recess for the lampholder fixing plate



Give the finished spindle a thorough sanding. Start with 240 grit abrasive and work down the grades to about 400 grit



Take care with the sanding so you don't round over the detail. Fold the abrasive paper into small pieces and work carefully into the recesses



Incise a tiny 'V' groove at each change of detail. This has the effect of sharpening up the angles quite dramatically



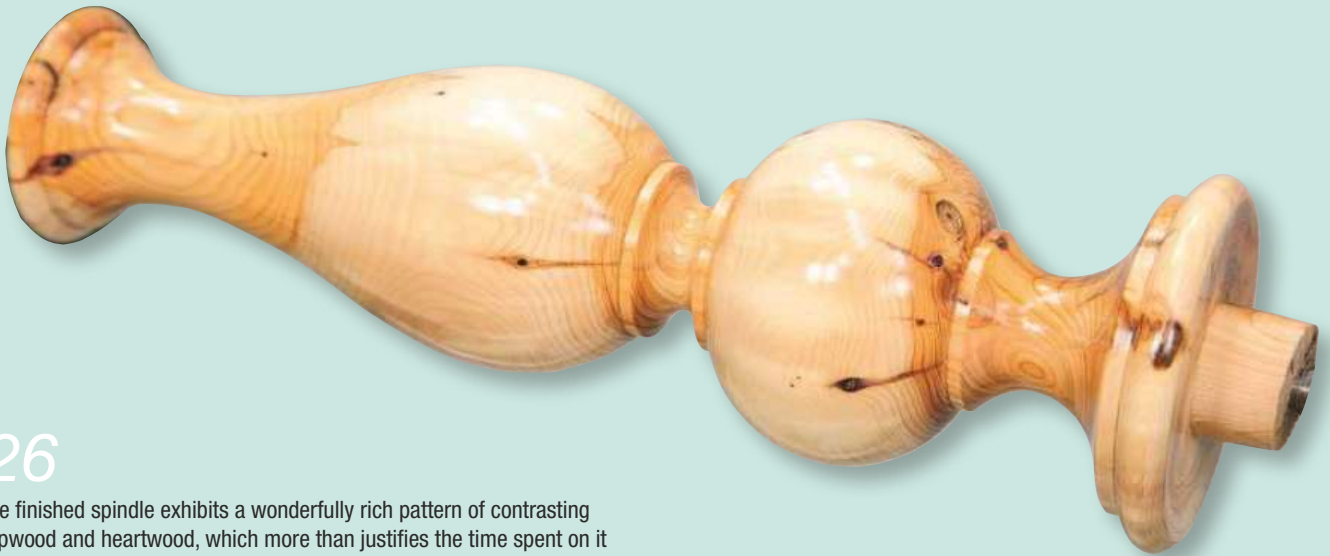
Apply a couple of coats of sanding sealer with a cloth with the lathe stationary. Rub it well in, particularly in the end-grain areas



Apply the polish of your choice. Paste wax applied with a cloth produces a wonderfully natural looking sheen, but will dull down a little over time



For a really high gloss, apply a light coat of carnauba wax on top of the paste wax and then buff this quite hard with a soft cloth



26

The finished spindle exhibits a wonderfully rich pattern of contrasting sapwood and heartwood, which more than justifies the time spent on it



27

Hold the base blank for the base on the 63mm wood screw chuck screwed into the top of the blank. Start turning at about 1,000rpm



28

Use a 10mm bowl gouge to trim up the periphery, again keeping the handle down so that the bevel cuts cleanly in a controlled manner



29

Use a parting tool to form the chucking recess and remove the waste. Make the recess slightly hollow, to allow the chuck to seat properly



30

To increase the dovetail grip of the chuck jaws, angle the inside of the recess back slightly using the skew chisel on its side



31

As this is the last time the underside of the base will be accessible, sand and polish it now in the same way as the spindle



32

Reverse the base onto the chuck, expanding the jaws into the recess. Rotate it slightly as you do, to make sure the jaws seat perfectly



33

Drill or turn a hole to take the dowel at the end of the spindle. Fit it and draw around the bottom bead to show how much you can turn away



34

Drill a 6mm hole from the least interesting edge of the blank into the central hole, to form the side entry for the lamp flex



35

Shape the base profile with the 10mm bowl gouge. Swing the headstock off a few degrees to give clearance for the tool handle over the lathe bed



36

Sand, seal and polish the finished base as before. Keep the wax well away from the areas that are going to be glued together

37

Connect the flex to the lampholder terminals and screw it onto the lampholder plate. See below for more wiring details




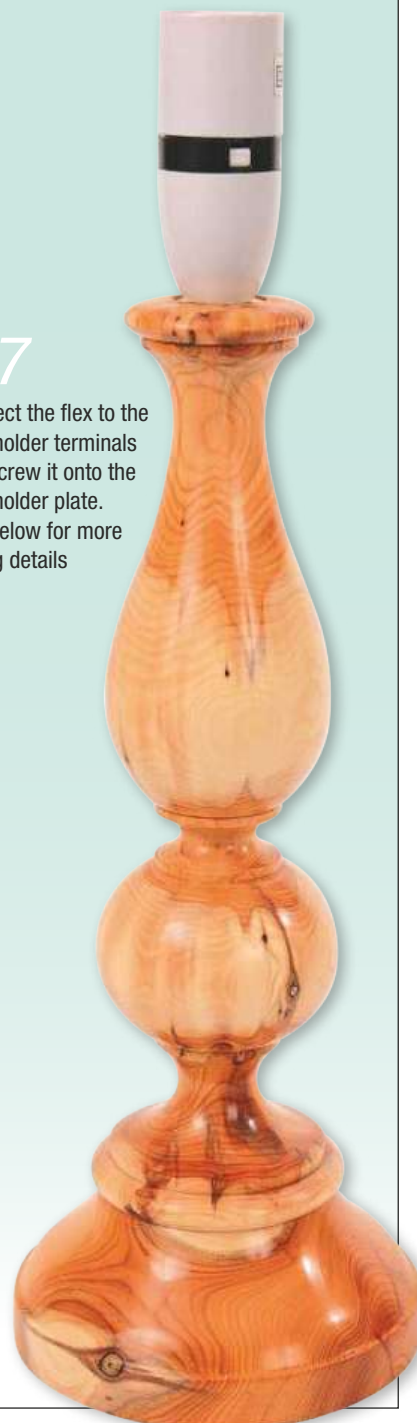
WIRING UP TABLE LAMPS

If you decide to make this lamp base, you need to know how to wire it up safely. The lamp flex runs from a lampholder mounted on top of the lamp body, down a hole bored through its centre and out through a hole drilled in the side of the base.

Lampholders for table lamps may be plastic or brass. Both are mounted on a small circular brass plate that is screwed to the top of the lamp body, and this must incorporate plastic protection bushes to stop the flex sheath from chafing on it.

In addition, the flex must pass through a plastic cord cleat to prevent a yank on the free flex from straining – or breaking – the connections at the lampholder terminals. You will need to create room for this cleat within the lamp body. The simplest solution is to bore a larger diameter hole up from the bottom of the base to the point where the hole through which the flex passes changes direction. Feed the flex down from the top of the lamp body, through the cleat and then out through the side exit hole.

Wire the lamp with round 0.5 or 0.75mm² flex. You can use two-core flex for lamps fitted with a plastic lampholder. If you prefer a brass lampholder, you must use three-core flex with an earth core, which is connected to the earth terminal on the lampholder and plug 



WE'VE GOT CHRISTMAS SORTED! HAVE YOU?

£19.99*

For any of these titles
*UK only offer

Avoid the long queues and treat your loved one with a gift subscription to their favourite magazine. You get to save money, and they get their magazine delivered direct to their door! You could even treat yourself... Don't miss out – subscribe today!



🌲 CHOOSE FROM A RANGE OF MAGAZINES 🌲 GREAT SAVINGS 🌲 FREE GREETINGS CARD WITH GIFT SUBSCRIPTIONS



SUBSCRIBE SECURELY ONLINE: www.mymagazineoffers.co.uk/X310

CALL: 0844 243 9023 AND QUOTE X310

BY POST: PLEASE COMPLETE THE FORM AND POST IT TO THE ADDRESS PROVIDED. QUOTE REF: X310

YOUR DETAILS: (This section must be completed)

Mr/Mrs/Miss/Ms..... Name.....

Surname.....

Address

Postcode.....Country.....

Tel/Mob

Email.....

D.O.B.....

(Complete if the subscription is for yourself)

Magazine..... Price

GIFT RECIPIENT (Complete 'Your details' first)

Mr/Mrs/Miss/Ms..... Name.....

Surname.....

Address

Postcode.....Country.....

Tel/Mob

Email.....

D.O.B.....

(Complete if gift recipient is under 18)

Magazine..... Price

PAYMENT DETAILS

Please make cheques payable to MyTimeMedia Ltd and write code **X310** and magazine title on the back.

☐ Postal Order/Cheque ☐ Visa/Mastercard ☐ Maestro

Card no: (Maestro)

Cardholder's name:

Valid from Expiry date..... Maestro issue no.....

Signature Date

**SEND TO: My Time Media Ltd, 3 Queensbridge
The Lakes, Northampton NN4 7BF**

TERMS & CONDITIONS: Offer ends 15th December 2015. UK Offer Only. Gift subscriptions will begin with the first available issue of 2016 and personal subscriptions with the next available issue when order is placed. For full terms & conditions visit www.mytimemedia.co.uk/terms. From time to time, your chosen magazine & MyTimeMedia Ltd may contact you regarding your subscription, or with details of its products and services. Your details will be processed in full accordance with all relevant UK and EU data protection legislation. If you DO NOT wish to be contacted by MyTimeMedia Ltd & your magazine please tick here: ☐ Email ☐ Post ☐ Phone
If you DO NOT wish to be contacted by carefully chosen 3rd parties, please tick here: ☐ Post ☐ Phone
If you DO wish to be contacted by carefully chosen 3rd parties, please tick here: ☐ Email

These two trade-rated sanders from Axminster are aimed at two different types of user but both machines are extremely effective in use

Axminster SS-12VS & DS12DLMB2 300mm & 305mm disc sanders

Axminster SS-12VS

While a disc sander may not be on the top of your list of machines, it is nonetheless an extremely useful tool to have. Combined with a bandsaw or jigsaw, it can be used to produce smooth curved components. It can accurately trim and shape end-grain and can also be used with care on metals and plastics.

This heavyweight machine has all the features a professional could need. It is extremely heavy and robust and as such, should be safely bolted down onto a stand or workbench. It has an unusual design as, instead of the table tilting to vary the angle at which the workpiece contacts the disc, the motor tilts and the table stays horizontal. The tilting mechanism uses a rack and pinion system to move the motor and there is a sprung pin to lock it in the most-used positions, so it is easy to set and reliably accurate.

The table itself is made from heavy cast-iron and has a groove in which the large mitre fence runs. It can be tilted away from the disc to allow the abrasive to be changed.

Extraction

Disc sanders do generate a lot of dust, especially when you're shaping components. It is reassuring to know that there is a dust extraction outlet fitted to the base of the disc housing beneath the table and adaptors are supplied, so it can easily be connected to most extractors.

Disc

The disc has a protective shield mounted over its right-hand quadrant; this is to dissuade the user from accidentally offering the workpiece to the 'upside' of the disc where it may be wrenched from their hands and flung across the workshop. Always work on the 'downside' of the disc so that the work is safely held down against the table.

Changing abrasive

Unusually this sander uses hook-and-loop-backed discs, so it is quick and easy to change abrasives as necessary without having to clean off any sticky residue left by self-adhesive discs. The worktable tilts out of the way and the plastic shrouding around the disc must be removed before the abrasive can be changed, but this is quick and easy to do.

Starting and stopping

The sander uses an induction motor, so it runs quietly. It is fitted with a variable-speed control, which is especially useful as the speed can be set to suit the job in hand and so avoid overheating or burning the timber as can easily happen. The disc spins freely and after the power is cut, it takes



SS-12VS power switch and variable speed knob



The SS-12VS's motor tilting mechanism



The SS-12VS's table with solid mitre fence



The SS-12VS has a substantial table



The SS-12VS's rack and pinion tilting



The push-button click-stop on the SS-12VS



From
£449.95



time to stop. A manual brake is fitted to the rear of the housing and pressing this safely brings it to a halt.

In use

This is an impressive machine to use; it runs without vibration and is powerful and accurate. Keeping the workpiece horizontal, irrespective of what angle is being sanded, makes a lot of sense. The variable-speed is a bonus and the whole machine is well designed and robustly made. It gets the thumbs up from me.



The SS-12VS's disc brake



The SS-12VS uses a hook-and-loop disc



The SS-12VS in use

The DS12DLMB2 features an NVR shrouded switch with extra cable



The DS12DLMB2's simple tilting mechanism



The DS12DLMB2 features a huge table

Axminster DS12DLMB2

The second sander here has a rather more conventional design, though with a couple of surprises. Again, it is bench-mounted machine and should be safely secured before use. The disc remains vertical and the table tilts on this machine; however, it has an unusually large table. The machine is also equipped with electronic braking and a removable power switch.

Table

The table is a massive 400mm long and 225mm wide and features a large curved extension, which gives excellent support for large workpieces. There are two grooves cut in to accommodate the small mitre fence and the table sits on a pair of quadrant brackets, which move to allow the table to be tilted to the required angle. A scale is marked on them, but there are no click-stops and they are secured with Bristol levers. Beneath the table is a 63mm diameter dust extraction outlet.

Disc

A protective shield is also mounted on this sander over the right-hand quadrant, and the base of the disc is covered by the extraction housing. The abrasive used is the more common self-adhesive type, which is easy to change after removing the table and the lower housing.

Switch

A standard NVR switch is used to feed power to the induction motor and it is mounted at the back of the machine. However, it is fitted with an extra long length of cable between it and the motor, so it can be removed and mounted in a more convenient position, perhaps on the front of a bench or stand. There is no variable-speed, but it is equipped with electronic braking, which stops the spinning disc rapidly.

In use

The DS12DLMB2 is a simple machine to use. Care must be taken to set angles accurately and the use of a try square or sliding bevel is recommended. The motor runs smoothly and stops rapidly, making this a particularly safe machine to use. The dust extraction is also efficient.

SPECIFICATION

	DS12DLMB2	SS-12VS
DISC SIZE	300mm	305mm
POWER	560W	750W
SPEED	1,425rpm	1,000-3,000rpm
TABLE TILT	45°	-5° to +45°
WEIGHT	28kg	32kg

VERDICT

Both these sanders are good machines with their own strengths. The SS-12VS is especially good for precise work with its clever tilting system, variable-speed and quick set-up. The DS12DLMB2 offers a generous worktable and electronically braked motor, making it particularly safe

PROS ■ **SS-12VS:** Variable-speed; accurate tilting system; hook-and-loop abrasive fastening
 ■ **DS12DLMB2:** Large worktable; electronic braking; removable power switch

CONS ■ **SS-12VS:** Very heavy; manual disc brake
 ■ **DS12DLMB2:** No variable-speed; tricky to set

VALUE FOR MONEY PERFORMANCE



FURTHER INFORMATION

- Axminster Tools & Machinery
- 03332 406 406
- www.axminster.co.uk

Summing up

Both these machines are extremely effective. They are aimed at two different types of user: the SS-12VS is really for the professional user who demands extreme accuracy, versatility and ease of set-up and it fulfils all these requirements admirably; whereas the DS12DLMB2 places more emphasis on simplicity and safety. It is the ideal machine for use in an educational environment. **AS**



The DS12DLMB2 has a small mitre fence



The DS12DLMB2 with its table tilted



The DS12DLMB2 in use

This new radically redesigned pocket-hole jig from Kreg gets five stars from us and is ideal when working with different thicknesses

Kreg K5 Pocket-Hole Jig



£99.95

SPECIFICATION

MIN TIMBER THICKNESS	12mm
MAX TIMBER THICKNESS	38mm

ACCESSORIES Kreg Jig K5 base with ratcheting front-side clamp, extension wings, swivelling dust-collection port, drill guide block, spacer block, workpiece stop, drill bit setup block, stepped drill bit, 152mm driver bit, stop collar, Allen wrench, Hex wrench, starter Kreg screw set, starter pocket-hole plug pack, online SkillBuilder videos, and three downloadable project plans

VERDICT

The K5 is a vast improvement on the previous K4 model and is well worth the money

PROS ■ Fast adjustments
■ Storage containers for bits
■ Support for wider work

CONS ■ Drill has to be set with a block

VALUE FOR MONEY ■ ■ ■ ■ ■
PERFORMANCE ■ ■ ■ ■ ■

FURTHER INFORMATION

- Kreg
- www.kregtool.eu

The K5 is a radical redesign of its predecessor, making it even more user-friendly. Its footprint is bigger but clamping is now via the front side with a large paddle working in a cam-like fashion, hinged below the base to pull the clamping foot inwards to secure the work. Two side extensions support wider boards as well as offering flip-up lids for storing the drill bit,

side stop and depth setting block for the drill and a few screws.

These extensions slot in with a dovetailed fitment and for a permanent set-up there are appropriate fixing holes on the jig and the extensions.

In use

The jig bushing block is now held with a spring-loaded pin rather than the threaded pin of the K4 so there's no danger of losing

it. The clamping shoe slides on a ratcheting plate into notches that snug it up close to the workpiece when the clamping lever is engaged. Pushing on the large grey button releases the shoe from the plate so it can be slid back for thicker work. It's a brilliant improvement over the K4 and you can now swap in a flash between any thickness from 12-38mm.

Instead of a slot for setting the drill collar there's now a stepped block. It works well enough, and helps eliminate mis-setting of the drill to the corresponding timber, but I still like the moulded-in version on the K4.

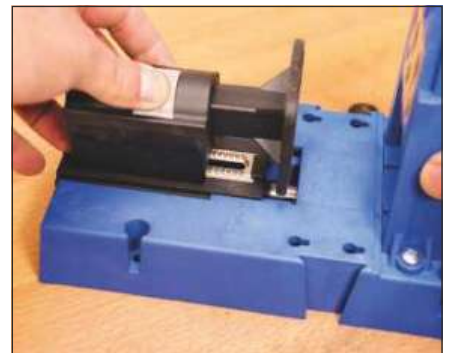
The high-quality drill has sharp flutes along its length for very clean holes and fast drilling, and with the dust port now a built in swivelling outlet, clogging is reduced.

Summing up

The K4 is great but the K5's fast adjusting capability makes life so much easier when working with different thicknesses. **AK**



This large cam lever locks the work firmly in position



The lever is linked to this ratcheting shoe, making it easy to alter settings



The spring-loaded indexing pin is used alongside the height scale on the side that relates to timber thickness



Once the guide block is at the right height, the drill can be set up with the stop collar



£180

If you're looking for a great pair of power tools, then look no further than the new Stanley FatMax 18V drill and impact driver, both supplied in a handy shoulder bag

Stanley FatMax 18V drill and impact driver

It must be comforting for manufacturers to know that they're on the right lines, and what better way than to look around and see that everyone else is selling a similar product or successfully packaging a particular selection for a specific market. Such a pair of products is the popular combination of 18V cordless drill and accompanying impact driver. The latest brace on the market is this one from long established tool makers Stanley, and comprises a compact combination drill (aka a 'combi') plus a dedicated impact driver. The last few years have seen a rise in popularity of their trade and high-end DIY targeted 'FatMax' brand, which can be found online and at Argos and Homebase across the UK. Power tools are a newish venture for Stanley, but, backed by their well deserved reputation, all seems to be going well for them and the latest yellow-bodied kit.

All bagged up

The two tools are currently being presented as a working pair, and come in a modestly-sized nylon shoulder bag. This has ample room for both drill and driver, plus charger and batteries, too. Side pockets, pouches and clips mean you can get pretty much all you need for a simple DIY task onboard, and that's just what I did last weekend for a couple of little jobs round a friend's house. Although a sturdy plastic carry case stacks up nicely in the van and you can sit or stand on it, there's a lot to be said for the convenience and 'hands-free' aspect of a shoulder bag. This one even has a little plastic window for your business cards!

The kit is supplied with two Li-ion batteries rated at 2Ah each. I think we've been getting a bit spoiled with increasingly bigger batteries of late; unless you're using your drill pretty much constantly all day long, these are perfectly OK and also have the advantage of being half the size

(and weight) of the 3, 4 and above Ah versions. If you're only an occasional user, you can check battery condition before you start work with the base-mounted indicator device.

Combi drill

The combi drill is nicely sized and proportioned, and all who've held it have remarked on its comfort. The smaller battery helps to keep the weight down, yet it still manages to feel like a 'proper' power tool. All the controls are where you would expect them – it would take a brave manufacturer to ignore today's evolved convention – and everything works just how you would expect. The standard keyless chuck is easy to grip and doesn't make you fear for your fingers every time you change a drill bit. In use it performed faultlessly, although I was mildly surprised to note the chuck's



Fast charger and compact 2.0Ah battery



Chuck to chuck; keyless versus Hex



The onboard digital battery checker

forward spring action; I don't know if this is a shock-absorbing device or if it's something to do with increasing accuracy? If anyone out there has the answer, I'd be pleased to learn it.

I have to take my hat off to the designers of this drill and driver duo, as they've managed to stop just short of making the kit look gimmicky while retaining the appearance of a piece of kit your average builder wouldn't be embarrassed to be seen using. Everyone who saw it liked it, and the girls from the studio next door all wanted to keep it. A hit all round it seems...

In use

I had a few fixings to make in a couple of different walls recently, so I took the drills in their Stanley holdall and trusted to the benevolence of the gods of DIY. The first wall was brick and looked easy. I like to start without the hammer action, only clicking it on when it feels like hard work – hard work for me that is. A couple of 5.5mm holes later (it makes for a tighter fit with your 6mm plugs if the wall is a bit soft) and then it was onto the poured concrete of the park-side flat. These holes proved to be more of a challenge, but at no point did it feel like a waste of time – the drill did its work and all was well.

Make an impact

When they first came out, impact drivers were a bit of a puzzling oddity. The constant rat-a-tat-tat of the impact device certainly drove a screw in more quickly and with a lower user muscle requirement, but you really needed some ear defenders to stop from going mad (I'm only speaking for myself here by the way). Things have lately improved, so much so that the FMC645 impact was almost enjoyable to use, the 'impact' only really kicking in when it was absolutely necessary to supplement the torque provided. Having an impact driver at your disposal means you can do away with pilot holes, even clearance holes for big screws, and really speeds up a job. I used mine to fix some cupboard backs on – no clearance holes – and pretty much reduced the time it would normally take by at least half, but likely more.

Summing up

Unlike the combi, there is no adjustable torque control, so the user needs to be prepared; I found that while it was quick and efficient, I missed the feel of the feedback that you get with a regular driver. I did find myself warming to it after a bit, though, and for certain jobs in the future, it could easily become my power tool of choice. **MC**

SPECIFICATION

COMBI DRILL

SPEED	0-400/0-1,600rpm
MAX TORQUE	51.4Nm
CHUCK CAPACITY	13mm

IMPACT DRIVER

SPEED	0-2,900rpm
BEATS	0-3,100bpm
MAX TORQUE	180Nm
CHUCK CAPACITY	6mm (Hex)
WEIGHT	1.2 kg

VERDICT

The combi drill is an absolute winner no question; the impact driver is a good specimen of the type, but will be something of an acquired taste for most users

PROS ■ Compact
■ Efficient
■ Light and comfortable to use

CONS ■ A regular driver instead of an impact would have made this my power tool kit of the year

VALUE FOR MONEY ■■■■■■
PERFORMANCE ■■■■■■

FURTHER INFORMATION

- Stanley Tools
- 01753 511 234
- www.stanleytools.co.uk

The nifty 'hands-free'
shoulder bag



Torque selector ring and speed switch

The rubberised grip makes for increased comfort



Detail of body moulding design

These Trend kits, while not designed for impact work, offer a great range of applications

Snappy SB3 & SB4 screwdriver sets



If you already own a battery driver, the SB3 kit is the more comprehensive in the fixings that can be used, with 48 25mm-long bits covering Philips, Pozi, slotted, hex, Torx

and Torx security plus seven 75mm-long bits covering the three common Pozi and Philips sizes along with a single slotted bit.

Each bit has a coloured identifier ring, and all are of good quality, as is the magnetic bit holder.

This has a pullback sleeve that locks each bit in place, but while the magnetism within is good on the 25mm bits to help hold

a fixing, I found it has no hold when the 75mm bits are in use. Nonetheless, there's a decent set of good-quality bits within this set in a compact little case if that is all you need.

However, the SB4 is the more interesting of the two and gives more scope, especially if you want the closer control that hand driving offers. It's a 41-piece set and has a small 1/4in drive ratchet handle for the five sockets as well as a natty little ratchet handle for the

screwdriving tasks, which can be used in its own right for additional purchase on stubborn fixings or for an extra nip up as required.

There's an adaptor included so the sockets can be used, but the advice is to go no bigger than the 10mm socket.

Further sets

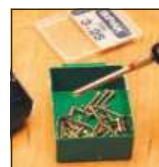
With a decent set of commonly used bits in various sizes, again with coloured collars for easy identification, it's the inclusion of a further set of micro-sized bits that could prove useful for some repair work, on small electrical items especially.

A neat dual-function bit holder is included

for these as they have a smaller 4mm hex shank so the bit holder has a retracting sleeve that reveals a 4mm holder in one position and a standard 6.3mm holder in the other.



The SB3 bit holder magnet works well enough with a short bit fitted...



...but with the longer bits there's no magnetism at all through the bit

Summing up

The overall quality is again very good indeed, and used within its capabilities this is a kit that is especially useful for small assembly work where finer control is needed while still attaining decent torque on the fixings. **AK**

SPECIFICATION

SB3 SET 48 bits × 25mm; 7 bits × 75mm

SB4 SET 12 × 25mm (6.3mm hex fitting); 18 × mini (4mm hex fitting); 5 × splined sockets – 6, 7, 8, 10 & 13mm

VERDICT

Great kits to use if you're working on a wide range of applications and they're of very good quality

PROS ■ Each set has an excellent range
■ SB4 is ideal for controlled smaller work

CONS ■ Be careful not to overload the SB4 driver on bigger fixings or bolts
■ Magnetic holder has no power on longer bits

VALUE FOR MONEY ■■■■■■■■■■
PERFORMANCE ■■■■■■■■■■

FURTHER INFORMATION

■ Trend
■ 01923 249 911
■ www.trend-uk.com



With the black sleeve forwards the standard 6.3mm hex bits are held



Slide it back and it holds the micro 4mm hex bits



The SB4 ratchet handle can hold the bits directly for working in tight areas



Alternatively, it will take the magnetic bit holder to extend it



You can also fit the sockets using the adaptor



For general nut and bolt securing the ratchet handle is good

TIMBER SUPPLIES, COURSES & SPECIALIST EQUIPMENT

Woodturning & Woodworking Courses*One or two day courses available***Just Wood Norfolk**

By Tutor with over 30 years experience in wood turning, cabinet making, antique restoration, wood machinery, joinery and the timber industry.

Courses arranged to suit & situated in Norfolk
Please call for more details.

Telephone Peter on 01493 782408 • e: luckymayhew@gmail.com
or see our website: www.justwoodnorfolk.co.uk for more details

THE CHIPPENDALE INTERNATIONAL SCHOOL OF FURNITURE

Thirty years
teaching
furniture design,
making and restoration



www.chippendaleschool.com

SURREY TIMBERS Ltd*Your One-Stop Wood Shop*

Hardwood Timber Merchant
stocking local & Imported Timber



Buy one
piece or one
pack!

Please come & select from our range:

**OAK, YEW, WALNUT, SAPELE, APPLE, MAPLE,
SYCAMORE & More!**

All welcome • Woodturners • Joiners,
• Cabinetmakers

Call in and see
our huge range at: Loseley
Park, Guildford GU3 1HS

01483 457826 or 07795 663792
www.surreytimbers.co.uk

Allan Calder's Ltd Sandpaper Supplies

Unit 2B, Churnet Works, James Brindley Road, Leek, Staffordshire ST13 8YH.



We are supplying top quality brands of
sanding abrasives for all types of
Wood Turners, Joiners & Cabinet Makers.

Web: www.sandpapersupplies.co.uk

email: sandpapersupplies@yahoo.co.uk

Tel: 01538 387738

Unloved? Unuseable? RESTORE IT!



Stanley No.5 'before & after' photo courtesy Peter Hemsley – The ToolPost

Restore Rust Remover & Restore Rust Remover Gel

Remove only the rust leaving sound metal unaffected.
Cleans and brightens brass and nickel plating. See more
stunning 'before & after' examples on our website photo
galleries. Find local and international stockists on the
website.

Shield Technology Limited.
Unit 69, Grimsby Business Centre
King Edward Street,
Grimsby, DN31 3JH

Tel: +44 (0)1472 360699
Fax: +44 (0)1472 324685
Email: info@shieldtechnology.co.uk
www.shieldtechnology.co.uk

Distributor enquiries welcome

SHIELD TECHNOLOGY
Guarding Against Corrosion

TOOLS WANTED

Top Prices Paid For Quality Hand Tools

carving tools, chisels, turning tools
norris planes (and similar), metal planes
green tools, any nice old hand tools...



email photos to: info@oldtools.co.uk
or bring tools to: Bexhill - 01424 217893

DAVID STANLEY AUCTIONS

1,000 LOTS OF ANTIQUE & MODERN WOODWORKING TOOLS AT:

**HERMITAGE LEISURE CENTRE,
WHITWICK, LEICESTER LE67 5EU**

**on Friday 20th November 2015
at 10.00am prompt**

Viewing: Thursday 19th November - 12 noon - 6.30 p.m.
and Friday 20th November - 7.30 a.m.

CATALOGUES £5 FROM DAVID STANLEY AUCTIONS,
OSGATHORPE, LEICESTER LE12 9SR

Tel: 01530 222320 Fax: 01530 222523

Catalogue@davidstanley.com
www.davidstanley.com

Dowelmax

**The ultimate doweling jig
for furniture makers**

Brings production technology to the small shop

"Fast, accurate and a joy to use, a superb tool"

Visit: www.dowelmax.co.uk

or telephone: **01352781168 • 07773718758**

Dowelmax Classic Metric and Junior Metric in stock

**FOR
SALE**

Turnstyler
**Lathe
TS 500**
by
Fred Woods
in very good
working order



Tel: 01723 513089
Only £900

(Does not include wood shown in picture)

- Cast iron head and tailstocks • Ground bed bars • Angular contact double thrust bearings
- 1 HP motor with No/Volt & Overload • Camlock Tool rest • Bowl turning rest
- 30" bowl capacity • 5 speeds • 30", 36" and 42" between centres • Head & tailstock bored through 5/16 • Variable speed • Nova chuck and extra 1" jaws • Approx 40 tools



The Wood Veneer Hub

www.thewoodveneerhub.co.uk

We provide the highest quality:

Decorative, Exotic & Burr Veneers
Coloured & Smoked Veneers
Constructional Veneers
Peel & Stick Veneers
Tools & Accessories

Visit Us: Unit 4 Eden Court, Eden Way
Leighton Buzzard, Bedfordshire, LU7 4FY

+44 (0) 1525 851166

sales@thewoodveneerhub.co.uk

CAST IRON STOVES

20
Great
Looking
Styles

BUCKINGHAM
£298.80

Selling
Top Quality
Stoves in the
UK for over
20 years



**Burn Wood
or Coal**
Big Stocks of
Flue Pipes &
Accessories
in-store

All Stoves conform to EN13240



FIT NOW FOR WINTER



WENTWORTH £395.98

REGAL II £422.80

BARREL £250.80

SEE THE FULL RANGE IN-STORE OR ONLINE

65 SUPERSTORES
NATIONWIDE

Mon-Fri 8:30-6:00
Sat 8:30-5:30
Sun 10-4

machinemart.co.uk
MAIL ORDER: 0115 956 5555

Machine Mart



WOOD FINISHES, SPECIALIST EQUIPMENT & BOOKS

House of Brass
CLASSIC TO CONTEMPORARY
ARCHITECTURAL FITTINGS SPECIALISTS



SHOWROOM: NOTTINGHAM NG1 3NA
Tel: 0115 947 5430 (24 HRS)
Web: www.houseofbrass.co.uk
FREE CATALOGUE OR VIEW ONLINE

Visit our website at www.hobbyuk.com

HOBBY'S The Modelmaker's Yearbook £3.25 P&P FREE

Annual 2016 • No.46 • 320 Pages

- NEW EASY CUTTERS & POWER TOOLS
- MECHANICAL ALARM CLOCK KIT
- NEW ICONIC TV/FILM KITS
- HERITAGE STEAM ENGINE
- MARQUETRY KITS WITH DVD

DOLLS HOUSE SPECIALISTS

MATCHITECTURE
ONE THOUSAND AND ONE NIGHTS

NEW ARTICLES
METAL EARTH
HANDSOME CAB
MATCHSTICK CLOCK

FREE PLAN COUPON
WORKING MATCHSTICK
ROCKING HORSE

Hobby's (Dept WW)
Knight's Hill Square
London SE27 0HH
020 8761 4244
mail@hobbyuk.com
www.hobbyuk.com

Available from WH Smith & leading newsagents or direct

HOW TO MAKE THIS WINDSOR SIDE CHAIR
by Peter E Judge



ONLY £15.00
Plus £7.00 p&p for UK Delivery

The book is packed full of useful diagrams and colour photos on how to make this Windsor chair from start to finish. Every part of the process is explained in easy language, and in a step by step format, supported by dedicated photos and drawings, throughout its 420 pages.

Critique of the book from Mr R A of Florida. 21 Jan 2014
"Without doubt, it is the most detailed and comprehensive Windsor chair construction book on the market today. Finding detailed instructions on this subject has been difficult. I have collected every book and article I could find. Your book beats them all; no contest."

www.makingwindsorchairs.co.uk
Order through PayPal on the website, or please contact Peter by calling 0121 705 2196 or Email: peterejudge@gmail.com or write to: Peter E Judge, 21 Somerby Drive, Solihull, West Midlands B91 3YY.

Delivery to Europe £15.00 plus £14.00 p&p • America £15.00 plus £22.50 p&p
• Australia £15.00 plus £24.50 p&p • Canada £15.00 plus £22.50 p&p

MILK PAINT
The original milk paint for authentic colour in all your woodworking and restoration projects.


Chemically safe Historic Paints since 1974



Quote 'WWOfier' for 10% off your first order

The Blueberry Store
New England Interiors
Folk Art-Americana

www.blueberrystore.co.uk



TEWKESBURY SAW COMPANY LTD

Spindle Moulder Cutters & Limiters
Made to Order!

- Quick turnaround
- Able to supply to fit most types of blocks
- Many low priced standards from stock

Tewkesbury Saw Co. Ltd.
Newton Trading Est. Tewkesbury, Glos. GL20 8JG
Tel: 01684 293092 • Fax: 01684 850628
www.tewkesburysaw.co.uk

STEEPCRAFT.



Realise unique projects - with computer-aided desktop 3D systems. Exclusively in the UK with STONECNC!

Customised projects with the desktop 3D system

- CNC router	- CNC plotter	All you need to CNC from £1000
- 3D printer	- Vinyl cutter	
- Foam cutter		

Visit our website www.stonecnc.co.uk and watch the machine in action!

Distributed exclusively in the UK by **STONECNC**

Happy to help at all times:
+44 (0) 1432 607 908

info@stonecnc.co.uk
www.stonecnc.co.uk

SHOP GUIDES

**MAIL ORDER
NARROW BANDSAW
BLADES
MANUFACTURED TO
ANY LENGTH
PHONE NOW FOR QUOTATION
OR PRICE LIST**

TRUCUT

Spurside Saw Works, The Downs,
Ross-On-Wye, Herefordshire HR9 7TJ
www.trucutbandsaws.co.uk
Tel: 01989 769371
Fax: 01989 567360

TOP QUALITY - LOW PRICES
VSM - VITEX ABRASIVES

KK532F Starter Pack (4 Metres) £12.95
inc. VAT and UK post. 1/2 metre each of grits
80, 120, 150, 180, 240 320, 400, 600
Also the NEW * GRIP - A - DISC *
Power Sanding/Finishing System
Plus lots of Belts, Discs, Stars, Low cost KK114
We also stock WOODTURNERS SUPPLIES
Timber/Bowl Blanks/Tools/Waxes/Finishes
Glues/Chucks/Glassware/Cutlery/Sundries.
SAE FOR CATALOGUE
Jill Piers Woodturning Supplies
2 Kimberley Villas, Southmill Road,
BISHOPS STORTFORD, HERTS CM2 3DW
Tel/Fax: 01279 653760

BERKSHIRE

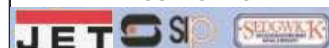
**WOKINGHAM TOOL
COMPANY LTD**

97-99 Wokingham Road
Reading, Berkshire RG6 1LH
Tel: 0118 966 1511
www.wokinghamtools.co.uk
H. P. W. CS. BS. A. D. MO.

LEEDS

**D.B. KEIGHLEY
MACHINERY LTD**

Vickers Pleace, Stanningley,
Leeds, LS28 6LZ
Tel: (0113) 257 4736
Fax: (0113) 257 4293
www.dbkeighley.co.uk
P. A. CS. BC. MO.



WEB GUIDE



Router cutters
Spindle tooling
Bandsaw, jigsaw &
circular sawblades

Online catalogue & ordering

www.wealdentool.com



MUSICAL INSTRUMENT MAKERS

Musical Instrument Makers' & Repairers' Supplies



Largest selection of tonewoods, tools & parts in the country.
Visit our website or order our catalogue. Callers welcome

Touchstone Tonewoods, Albert Road North, Reigate, RH2 9EZ

Tel: 01737 221064 Fax: 01737 242748

www.touchstonetonewoods.co.uk

CLOCKS

Woodworking Materials
Large selection of products!

- ✓ Clocks & Accessories (Quartz and Mechanical)
- ✓ Barometers
- ✓ Thermometers
- ✓ Cabinet furniture
- ✓ Screws
- ✓ Plans
- ✓ Kits
- ✓ Polishes
- ✓ Adhesives
- ✓ Abrasives etc.

For **FREE** catalogue please contact:

Chris Milner Woodworking Supplies

(Dept. TW) Beresford Lane, Woolley Moor, Nr. Alfreton Derbyshire DE55 6FH

Tel/fax: (01246) 590 062

Email: milnerwoodwork@aol.com



To advertise
here...

Call David on
01689 869 867

David Charlesworth Tool tuning and fine furniture making courses

Revolutionise your hand tool skills with David's five day Tool Tuning course; ultimate plane tuning, chisel preparation and planing skills. Subsequent courses cover Dovetailing and Drawer Making/Fitting. Five day courses run from April to August.

NEW Weekend Courses from September 2014
David is a legend of the UK woodworking scene and has a wonderful teaching workshop in an idyllic location in Hartland, North Devon.

See website for full course details & release date of David's New DVD

Contact David on:
01237 441288 or email: davidcharl@aol.com
www.davidcharlesworth.co.uk

DIAMOND SHARPENING & CHAINSAW DISCS

www.StarkieSharp.com
The Diamond Sharpening Specialists

- Better Prices
- More Information
- Visit us at 40+ Shows

DMT Diamond Sharpening Perfection!

Much safer, smoother carving with up to 44 Teeth cutting fast at 10,000+ RPM.

KATS Chainsaw Discs

The Ultimate Power Carving Experience!

Cut, Carve, Shape, Notch, Trench & Groove in Seconds! Massively increases productivity!

Quote Code SSTWW6 at checkout for **FREE** Universal Nut worth £6.95

Shown Lancelot & Squire in Tandem
Richard Starkie Associates,
Timber Cottage, Wistow, Leicester, LE8 0QF Email: sales@starkies.com
www.StarkieSharp.com

MARKETPLACE

Send
or email a
photograph of
your item and
we'll include it
with your ad for
FREE!

Our **FREE** classified advertisement service

FOR SALE

Shopsmith Mark V comes with bandsaw, circ, jointer, moulder, turning tools and many extra items. Offers over £500, please
01476 561 966 (Lincs)



Brand new pine wall wine display held with two large screws; £10
07858 728 376 (Matthew)

Coronet lathe with 3ft bed, plus Henry Taylor Master chuck and woodturning chisels. Any reasonable offers considered
01543 279 310 (Staffs)

Kity K5 combination machine saw, planer/thicknesser, spindle moulder. Old machine in really good condition with a host of extras; £300
07707 242 948 (Oxon)

Record DML 24X variable-speed lathe, excellent condition. 13 Robert Sorby turning chisels, as new, four chucks, five faceplates, 38mm Forstner cutter, various revolving centres including two- and four-prong centres, plus various mortise drills. Offers for job lot; collection only
01246 272 555 (Derbyshire)



Hydraulic 'Hospital' type bed ideal for assembly bench. Available with or without mattress and headboard/footboard but with the slot in fittings. Wheels have brakes and raises about 406mm – total bed base height about 813mm. I have a removable extra worktop adding about an extra 125mm (not included). £135 ono, buyer collects or arranges own transport. Supplied flat; no lift up panels for head/backrest
07961 382 567 (West Sussex)

Hardback books, Time Life (Canada and USA), BBC and other assorted Golden Homes magazines. Offers. Contact by telephone; buyer to collect
01912 658397 (Newcastle upon Tyne)

Tormek SVH-320 planer blade jig complete with instructions; £80
01793 771 898 (Swindon)

Kity 613 bandsaw. 180mm depth of cut, includes stand, blades and inserts for table; £275 – buyer collects
01497 847 065 (Hereford)

Woodworker magazines – 1951–1959 complete. Many other part sets from 1960–1990; odd copies from 1920–1922. Offers
01633 874 918 (Cwmbran)

Axminster woodturning lathe (240 × 330mm). Extras: 16 chisels, chuck index ring and hole boring kit; £250 – buyer collects
01223 503 860 (Cambridge)

Record 52½ ED quick-release vice, good condition; £45. Two No. Disston 558mm saw, USA, with applewood handle; £25
02086 641 4238 (D Haviland)

Black & Decker sander – ½-sheet orbital finishing model, 135W, in good boxed condition with dust extraction kit; £10
01189 712 472 (West Berkshire)

Handicraft Annual 1936; interesting book featuring tool kits, items to make, wood and mouldings for sale, etc; £28 inc P&P
07940 704 570 (Kent)

Hardwood boards, Indian laurel, bocote, sheoak and others. Please call for details
0208 675 0132 (South-west London)

Pfeil palm-held carving tools, set of 12 for wood and lino, in excellent condition, wooden box included; £75
01539 533 410 (Cumbria)

Axminster lathe variable-speed, 175mm over bed, 850mm between centres, headstock slides and swivels, with accessories; £160 (cost £400 new) – buyer collects
01747 838770 (North Dorset)

Trend Airshield Pro, never used, so complete and still boxed; £110 – buyer collects
01723 871 881 (North Yorkshire)

Record Power PT260 planer/thicknesser excellent condition; £375 – buyer collects
07900 320 742 (South Yorkshire)

WANTED

Woodworker magazines, pre-1951 plus 1984–1986. Grandfather collecting for cabinetmaker grandson
01493 368 180 (Norfolk)

Spiers/Norris/Henley planes wanted by private collector; any quote beaten. Ring Ron Lowe on
01530 834 581 (Leics)

Woodworking hand tools, especially old wood and metal planes, wanted by collector. Write to Mr B Jackson, 10 Ayr Close, Stamford PE9 2TS or call
01780 751 768 (Lincs)

Woodworking tools: planes by Norris, Spiers, Mathieson, Preston, Slater, etc. brass braces, interesting rules and spirit levels; top prices paid, auction prices beaten
01647 432 841 (Devon)

USE THIS FORM TO BOOK YOUR **FREE** AD

The Woodworker
MARKETPLACE

- This space is available only to private individuals wishing to buy or sell woodworking machinery and tools.
- The maximum value of any item for sale must not exceed £500. A small fee is payable for items offered at over £500; please ring 01689 869 852 for details.
- Each coupon is valid for one free insertion in the next available issue.
- The publisher accepts no responsibility for errors or omissions in this section.

Name _____

Address _____

Postcode _____ Daytime tel no. _____

Signature _____

Please publish this advertisement in the next available edition of *The Woodworker*. I am a private advertiser and have no trade connections.

PLEASE TICK: FOR SALE ☐ WANTED ☐

My advertisement (max 20 words please) reads as follows:

Please write your advertisement in **BLOCK CAPITALS** and send it to: **The Woodworker Marketplace, MyTime Media Ltd, Enterprise House, Enterprise Way, Edenbridge, Kent TN8 6HF.** You can also email your free ad to: **thewoodworker@mytimemedia.com** **Send/email a photograph of your item and we'll include it with your ad for FREE**

Still box-making

This excerpt of a project from the June 1955 issue of *The Woodworker* will certainly put your box-making skills to the test

Someone wrote to me the other day asking if we had any plans for a casket. The one he had in mind was a memorial version for double ashes; I was only sorry I couldn't help. But, because we all like a coincidence, this particular page from *The Woodworker* of June 1955 soon made itself known.

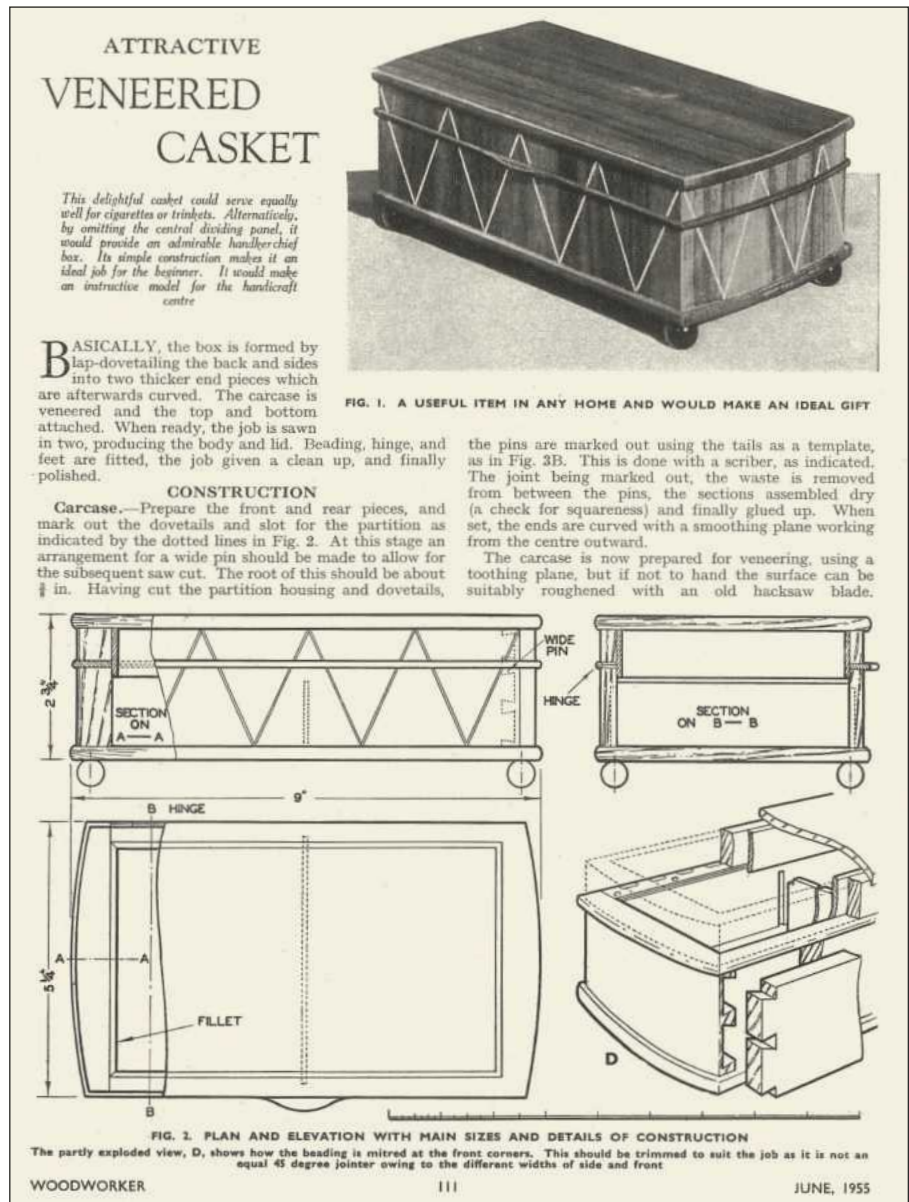
The term casket in this context of smallish rectangular box has widely been replaced by the word 'coffin', especially the variety that's found at the higher end of the market. Here, though, we're looking at nothing more than a useful little container that will both fulfil a function of containing family bits and pieces and look pretty on the sideboard.

Plenty of scope

Box-making is as popular as it ever was and this decorative container offers plenty of scope for exercising a variety of different skills and techniques. The treatment of the casket ends allows you to practise your lapped dovetails before moving on to shaping a curved profile to each piece. There's something very satisfying about making a joint in two pieces of timber, and then shaping the finished result afterwards. Often the end result can be very impressive, especially to the casual observer.

An attractive proposition

Once cleaned up and prepared with a tooothing plane, the box is ready for veneering. Hand veneering is a skill that is often overlooked these days, particularly when it involves hide glue or Scotch glue. For anyone unfamiliar with this venerable hot glue, it's constituent body is 'hoof, horn and hide', and was still in general use in joinery shops up until the 1960s. It's the stuff that used to give glue factories a bad name, and was the final legacy that many a working horse bequeathed to humankind, sadly including the noble and exploited Nelson from *Animal Farm*.



If anyone has yet to try their hand at Scotch glue veneering, I'd recommend it heartily. An essential part of the antique furniture restorer's toolkit, it's the closest you can get to woodworking alchemy on the bench top, involving as it does heat, steam, an element of chance and a very real risk of jeopardy. This casket job is on an achievable scale, and, with the white line inlay detail, presents an attractive proposition to all.

Once veneered, your casket can be topped and bottomed, sawn in two to create a lid, the edges cleaned up and lipped in a contrasting timber with a nice protruding profile, then hinged and finally, given feet to support it. Nice job.

Mark

More from The Woodworker archive next month...

NEW HANDS ON SHARPENING

A range of double-sided stones for trade professionals, utilising Diamond Cross Technology, providing the perfect balance between diamond & recess, maximising abrasion rates & clearance of debris.



5" file with handle
for sharpening
sawblade teeth.



8" bench stone for
sharpening chisels
and plane irons.



Specialist stone
designed for router
cutter sharpening.



Credit card stone with
handle for chisels &
woodturning tools.

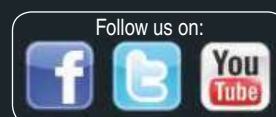


4" double handled
files for larger bladed
garden tools.

Available at Trend Routing Centres, visit www.trend-uk.com

trend[®]
routing technology

60
YEARS



Phone 01923 249911 or visit www.trend-uk.com for your free
2015 Routing Catalogue & details of your nearest stockist.

PT107 10" x 7" Heavy Duty Planer Thicknesser

The PT107 is perfectly suited to the discerning woodworker who expects professional and **reliable performance** from a **solid, durable** and **compact machine**. Whilst compact enough for smaller workshops and ideal for serious home or trade users, this machine boasts some impressive industrial features and is exceptionally smooth and accurate in operation. If you are in the market for a good planer thicknesser then check this out at one of our display stockists to fully appreciate the value on offer.

Only

£999^{.99}

Save £100
off Spring / Summer
Catalogue price



Central Column
The thickening table is supported by a sturdy central column for superior stability and easy rise and fall adjustment.



Cutter Block
The three knife cutterblock ensures an excellent finish.



Sturdy Fence System
The fence can tilt up to 45° and is supported by a strong mounting system.

"The PT107 is extremely well built, with heavy cast iron tables polished to a fine finish.

This machine feels more like a proper industrial model in use. The sheer weight minimises any vibration."



The Woodworker

"**Top Quality** - This is a very well made machine with full adjustment of both infeed and outfeed tables. This is unusual in a home workshop machine and allows very fine adjustment to eliminate any gouging at the end (snipe)...Results are excellent, chip clearance is good and the changeover from planing to thicknessing is quick and easy."



DesmondW, Online Review

Price valid until 28.02.2016. E&OE.

See the value the **PT107** offers for yourself at the following stockists:

ENGLAND

Aldermaston Tool Company Youngs Ind Est, Paices Hill, Aldermaston, Berkshire, RG7 4PW **0118 981 1470**

Grahams Machinery Deva House, Knutsford Way, Chester, Cheshire, CH1 4NX **01244 376 764**

Westcountry Machinery 4 wood
Beacon Kilns, High Street Village, St Austell, Cornwall, PL26 7SR **01726 828 388**

Jaymac (Derby) Ltd 852 London Road, Derby, Derbyshire, DE24 8WA **01332 755 799**

Toolite Co Unit 3/2 The Mews Brook Street, Mitcheldean, Gloucestershire, GL17 0SL **01594 544521**

Tewkesbury Saw Co Ltd Newtown Trading Estate, Tewkesbury, Gloucestershire, GL20 8JG **01684 293 092**

John Davis Woodturning The Old Stables, Chilbolton Down Farm, Stockbridge, Hampshire, SO20 6BU **01264 811 070**

D.B. Keighley Machinery Ltd Vickers Place, Stanningley, Yorkshire, LS28 6LZ **01132 574 736**

J Carr & Son Ltd 9-10 Horncastle Road, Boston Lincolnshire, PE21 9BN **01205 351 555**

D&M Tools 73-81 Heath Road, Twickenham, Middlesex, TW1 4AW **0208 892 3813**

Norfolk Saw Services Dog Lane, Horsford, Norwich, Norfolk, NR10 3DH **01603 898 695**

Snainton Woodworking Supplies
Barker Lane, Snainton, Scarborough, North Yorkshire, YO13 9BG **01723 859 545**

Oxon Fastenings Systems Academic House, Oakfield Ind Est, Stanton Harcourt Rd, Eynsham Oxfordshire, OX29 4AJ **01865 884 022**

Yandle & Sons Ltd Hurst Works, Martock, Somerset, TA12 6JU **01935 822 207**

Kraftkabin 248-254 London Road, Stoke on Trent, Staffordshire, ST4 5RH **01782 416 102**

DJ Evans (Bury) Ltd St Botolphs Lane, Bury St Edmunds, Suffolk, IP33 2AU **01284 754 132**

Elmers Hardware Ipswich 59-61 Edmonton Road, Kesgrave, Ipswich, Suffolk, IP5 1EQ **01473 623 381**

Scott and Sargeant Woodworking Machinery Ltd
1 Blatchford Rd, Horsham, West Sussex, RH13 5QR **01403 273000**

RS Paskin & Co Ltd Oldington Trading Estate, Stourport Road, Kidderminster, Worcestershire, DY11 7QP **01562 829 722**

WALES

Data Powertools Ltd 427 Cowbridge Rd West, Cardiff, CF5 5TF **0292 0595 710**

SCOTLAND

MacGregor Industrial Supplies
15-17 Henderson Road, Longman Industrial Estate, Inverness, Inverness-shire, IV1 1SN **01463 717 999**
Further branches available throughout the highlands. Please contact for more details.

Brodies Timber The Old Sawmill, Inver, Dunkeld, Perthshire, PH8 0JR **01350 727 723**

IRELAND

WH Raitt & Son Ltd Main Street, Stranorlar, County Donegal **00353 74 913 1028**

Joe McKenna Ltd 54-56 Parnell Street Limerick, County Limerick **00353 61 413 888**

JJ Ronayne Ltd Dublin Road, Thurles County Tipperary **00353 5042 1033**

RECORD POWER

ESTABLISHED 1909®

www.recordpower.co.uk Tel: 01246 571 020

Over
100
years
Experience • Knowledge
Support • Expertise

RECORD POWER
ESTABLISHED 1909®

STARTRITE **CORONET**

BURGESS **CamVac**

Incorporating some of the most famous brands in woodworking, Record Power have been manufacturing fine tools & machinery for over 100 years. Built to last we provide support for thousands of machines well over 50 years old, which are still in daily use. Testimony to the sound engineering principles and service support that comes with a Record Power product.